G.B.C.

PROGRAM HANDBOOK 1971-1972

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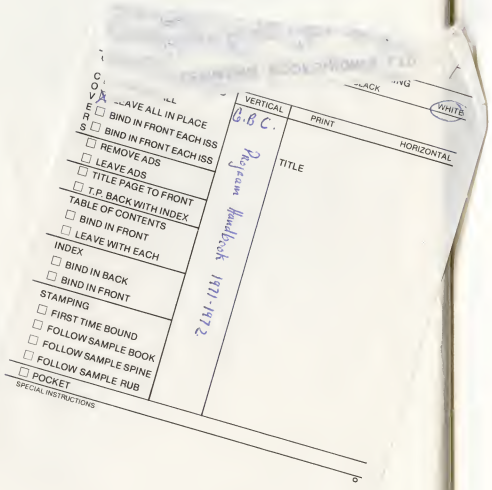
Rutherford

PROGRAM HANDBOOK **1971/72**

THE GEORGE BROWN COLLEGE

Of Applied Arts and Technology



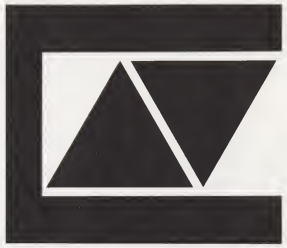
WANT TO ADD A YEAR TO YOUR LIFE

A three-year program in two years? Yes, it can be done at George Brown College. It demands hard work on the part of the student but it also allows the graduate into the working force a whole year sooner than expected. The student will spend 45 weeks each year at the college instead of the normal 33 weeks. It will save a student the cost of the 3rd year's tuition, board and lodging.

This "three years in two" option will apply to the following technology programs: Electrical Technology; Electronics Technology; Instrumentation Technology; Survey; Hotel/Motel Administration.

Technician programs within these areas will continue as before.

For information on these Programs telephone 924-4415.



The
GEORGE BROWN COLLEGE
of
Applied Arts and Technology

P.O. BOX 1015, STATION B, TORONTO 2B,
ONTARIO. TELEPHONE: (416) 362-3971

ADMISSION PROCEDURE

Application forms may be obtained from your Secondary School Guidance Office or from The George Brown College of Applied Arts and Technology, P.O. Box 1015, Station B, Toronto 2B, Ontario, Telephone 362-3971.

Application forms must be accompanied by ONE of the following documents:

(i) An official transcript of all secondary school marks showing the necessary credits and grades for admittance to the desired Program.

OR

(ii) A statement from the Secondary School Principal stating that the applicant is expected to obtain the necessary credits and grades for admittance to the desired Program. This statement must be substantiated by an official transcript of marks when it becomes available.

NOTE: Mature students (19 years or over) who do not meet entrance requirements but who appear to have the capacity and maturity to succeed may be accepted as probationary students.

All applications are reviewed by the Admissions Board which is empowered to defer, reject, or recommend an alternate Program for any candidate whose qualifications, in the opinion of the Committee, are not adequate to the demands of the Program which the candidates wishes to pursue.

(iii) Admission with advanced standing is available to applicants with suitable qualifications.

(iv) Students will be admitted in the following order of preference:

1. Permanent residents of Ontario;
2. Permanent residents from other Canadian provinces;
3. Overseas students from Commonwealth countries and,
4. Students from other foreign countries.

ELIGIBILITY

All courses are open to people of Canadian Citizenship or with Landed Immigrant status who have the necessary prerequisites. Other adults may make special applications for entry.

REGISTRATION

A student is not considered duly registered and will not be admitted to classes until fees are paid in full.

Programs will be offered at various times throughout the school year. Starting dates are available upon request.

FEES

(i) Post-Secondary
$160.00 per year--Includes tuition fee and a $10.00 non-refundable fee for registration and student affairs.

(ii) Non Post-Secondary
Students may enrol in most other Programs based on $3.00 per week.

Cheques and money orders for fees should be made payable to The George Brown College of Applied Arts and Technology.

LIVING ACCOMMODATION

Residence accommodation for out-of-town students is not provided by the College, but there is no shortage of boarding and rooming facilities in Toronto.

Rates vary from $20.00 to $30.00 per week for room and two meals.
The College operates cafeterias at all Campuses.

FINANCIAL ASSISTANCE

ONTARIO STUDENT AWARDS PROGRAM

Available only to Ontario residents who are registered in Programs for which the educational pre-requisite is Grade 12 (in general, Technician, Applied Arts, and Business Programs).

Bursary and Scholarship information is available upon application.

BOOKSTORES

The College Bookstores stock the required texts for all Programs and are well equipped with all necessary stationery supplies, drawing instruments etc.

EMPLOYMENT SERVICE

The College assists students in obtaining placement both during the summer vacation and after graduation. Part of this program is also the organization of pre-arranged interviews with prospective employers. However, the College is not responsible for the employment of graduates.

LIBRARIES

The College Libraries offer the latest books and publications to complement all Programs with up-to-date information.

HEALTH CENTRES

The College Health Centres are staffed by Public Health Nurses with a physician on a consulting basis and provide health counselling and emergency care for accidents and illnesses occurring at the Campuses. Students are responsible for their own hospital and illness insurance coverage. The College is not responsible for any expenses arising from illness or accident. Information regarding health insurance plans is available at all College Health Centres.

COUNSELLING SERVICES

Qualified counsellors are available on all Campuses to help students who are on course. An Information Centre for Vocational Counselling is located at 33 Bloor Street East, telephone 924-4415.

MINIMUM ADMISSION REQUIREMENTS

Applied Arts, Business and Technician Programs

(i) Three-Year Diploma Programs and Longer

Ontario Secondary School Graduation Diploma with related options of any Four-or Five-Year Program or equivalent. For some Programs the requirements vary.

- Dental Technician
- Food Processing Technology
- Graphic Arts
- Marine Engineering Cadet
- Navigation Officer Cadet
- Orthotic-Prosthetic Techniques
- Watchmaking

(ii) Two-Year Diploma Programs

Ontario Secondary School Graduation Diploma with related options of any Four-or Five-Year Program or equivalent. For some Programs the requirements vary.

- Accounting
- Addiction Counsellor
- Air Conditioning Technician
- Business Administration (General)
- Child Care Worker
- Civil Engineering Technician
- Coatings Technology
- Concrete Technician
- Construction Technician
- Creative Fashions
- Design Technician (Electrical/Electronics)
- Day Care Worker
- Dietary Services Administration
- Drafting Technician (Architectural)
- Drafting Technician (General)
- Drafting Technician (Mechanical Services)
- Drafting Technician (Structural)
- Electrical Technician
- Electronic Data Processing
- Electronics Technician
- Food Administration
- Graphic Design Technician
- Instrumentation Technician
- Instrumentation Technology
- Hotel-Motel Administration
- Jewellery Arts
- Legal Secretary
- Machine and Product Design

(ii) Two-Year Diploma Programs Cont'd

- Marketing
- Material Evaluation Technician
- Materials Handling Design
- Medical Secretary
- Municipal Engineering Technician
- Plastics Technician
- Precision Instrument Techniques
- Process Piping Design
- Secretarial Science (General)
- Survey Technician
- Tool and Design Technician
- Watchmaking

(iii) One-Year Certificate Programs

Ontario Secondary School Graduation Diploma with related options of a Four-Year Program.

- Bakery Technician
- Bakery Craft Courses
- Dental Assistant
- Heating Technician*
- Plastics Technician "B"
- Sales
- Welding Specialist

*Available through Canada Manpower

Ontario Grade 10 of any Four-Year Program. Many Programs are available under Ontario Manpower Retraining Program. Individuals may make application through the nearest Canada Manpower Centre.

- Appliance Service
- Business Equipment Servicing
- Chef Training (Pre-Employment)
- Commercial Art and Signwriting
- Drafting (General)
- Electrical Drafting
- Electronic Data Processing
- Electronics (General)
- Fur Business and Manufacturing
- Instrumentation Mechanic
- Machine Shop Practice
- Offset Printing for Letterpressman
- Screen Printing
- Signwriting
- Welding Fitter
- Offset Printing

(iv) Apprenticeship Training

For registered Apprentices only. For information contact the Industrial Training Branch of the Department of Labour, 74 Victoria Street, TORONTO 210, telephone 363-1211.

Baking
Barbering
Carpentry
Cement Mason
Chef Training
Electrical Construction
Glazier & Metal Mechanic
Hairdressing
Ironworker
Lathing
Machinist
Masonry
Millwright
Painting and Decorating
Plastering
Plumbing
Radio and Television
Refrigeration & Air Conditioning
Retail Meat Cutting Butchery
Sheet Metal Mechanic
Steamfitting
Structural Steel Drafting
Toolmaking
Watchmaking

(v) Less Than One-Year Program

Many of these Programs are available under the Ontario Manpower Retraining Program. Individuals may make application through the nearest Canada Manpower Centre. Various entrance requirements.

Academic Upgrading
Blueprint Reading
Bluepring Reading for Welders (Basic & Advanced)
Business Machines
Business Machines and Bookkeeping
Certified Building Custodian
Certified Visiting Homemakers
Clerk Typist
Colour Television
Commercial Accountancy
Commercial Clerical
Commercial Refresher
Commercial Stenography
Commercial Vehicle Driving
Cook Training (Pre-Apprentice)
Dictating Machines
Dining Room Service
Dressmaking and Alterations
Dry Wall Tapers

(v) Less Than One-Year Programs Cont'd

English as a Second Language
English Language for Provisional Tradesmen
Furniture Refinishing and Repair
Furniture Upholstery
Garment Pattern Making and Design
Hospital Chefs
Hospital Orderly
Inventory Control
Lathe Operator
Nursery Aide
Occupational English
Oil Burner Servicing Theory and Techniques
Photo Composition for Typographer
Plastics
Power Sewing
Refrigeration and Air Conditioning
Retail Meat Cutting Butchery
Teaching Techniques
Tractor Trailer Driving
Typist General Office
Varitype Operator
Welder Fitter Refresher
Welder Operator

(vi) Evening Courses

Over 350 courses available. The admission requirements vary for many courses.

(vii) Correspondence Courses

Marine Deck Officers
Marine Engineering Officers
Hospital Chefs
Bakers -- Selected Subjects Only

(viii) Marine Tutorial Courses

Marine Engineering
Navigation
Radar Observer
Radar Simulator

NOTE: Courses are continuously modified and revised in order to keep in step with industrial requirements. All Programs are subject to change without prior notice.

GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

P.O. Box 1015 Station B Toronto 2B Ontario/362-3971

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ACADEMIC STUDIES - UPGRADING PROGRAMS

AS41	-	Level B-1	B.T.S.D.
AS42	-	Level B-2	B.T.S.D.
AS43	-	Level B-3	B.T.S.D.

LANGUAGE TRAINING

LT-40	-	English As A Second Language
LT-70	-	Occupational English
LT-71	-	English for Provisional Trades

APPLIED ARTS

API	-	Child Care Worker
AP2	-	Dental Technician
AP3	-	Addiction Counsellor
AP4	-	Jewellery Arts
AP5	-	Day Care Worker
AP41	-	Dental Assistant
AP50	-	Hospital Orderly (Training)
AP51	-	Nursery Aide
AP70	-	Teaching Techniques
AP72	-	Certified Visiting Homemaker (Postponed Until Further Notice)

ARCHITECTURAL TECHNOLOGY

AR1	-	Air Conditioning Technician
AR2	-	Survey Technician
AR3	-	Construction Technician
AR4	-	Drafting Technician - Architectural
AR5	-	Drafting Technician - General
AR6	-	Survey Technologist (Pending Approval)
AR7	-	Drafting Technician - Mechanical Services
AR8	-	Drafting Technician - Structural
AR9	-	Concrete Technician
AR40	-	Drafting
AR41	-	Oil Burner Servicing
AR42	-	Heating Technician
AR44	-	Refrigeration and Air Conditioning
AR45	-	Appliance Servicing
AR46	-	Signwriting

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ARCHITECTURAL TECHNOLOGY Cont'd

AR70	-	Carpentry
AR71	-	Lathing
AR72	-	Masonry
AR73	-	Painting and Decorating
AR74	-	Plastering
AR75	-	Plumbing
AR76	-	Refrigeration and Air Conditioning (Apprentice)
AR77	-	Sheet Metal Mechanic
AR78	-	Steamfitting
AR79	-	Structural Steel Drafting
AR80	-	Cement Mason
AR81	-	Glazier and Metal Mechanic
AR82	-	Dry Wall Tapers
AR83	-	Blueprint Reading

BUSINESS AND COMMERCE

BI	-	Accounting
B2	-	Electronic Data Processing
B3	-	Marketing
B4	-	General Business Administration
B5	-	General Secretarial Science
B6	-	Legal Secretarial Science
B7	-	Medical Secretarial Science
B42	-	Sales
B45	-	Commercial Stenographic
B51	-	Business Machines and Bookkeeping
B52	-	Commercial Clerical
B53	-	Clerk Typist (Special)
B54	-	Commercial Accountancy
B55	-	Inventory Control - Warehouseman
B56	-	Commercial Refresher
B57	-	Typist - General Office
B70	-	Electronic Data Processing 1
B71	-	Electronic Data Processing 11
B72	-	Electronic Data Processing 111
B73	-	Business Machines
B74	-	Typing

ELECTRICAL/ELECTRONIC

EL1	-	Design Technician
EL2	-	Electrical Technician
EL3	-	Electronic Technician
EL41	-	Electronics
EL42	-	Radio and Television (Apprentice)
EL43	-	Electrical Drafting
EL70	-	Electrical Construction
EL71	-	Colour Television

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ENGINEERING TECHNOLOGY

EN1	-	Instrumentation Technician
EN2	-	Plastics Theory and Techniques Technician
EN3	-	Tool and Die Design
EN4	-	Toolmaking Technician
EN5	-	Machine and Product Design
EN6	-	Process Pipe Design
EN7	-	Materials Handling Design
EN8	-	Materials Evaluation
EN9	-	Coatings Technology
EN10	-	Orthotic-Prosthetic Techniques
EN11	-	Watchmaking
EN12	-	Precision Instrument Techniques
EN14	-	The Science of Industrial Measurement and Control
EN41	-	Business Equipment Servicing
EN42	-	Instrumentation Mechanic
EN44	-	Machine Shop Practice
EN45	-	Plastics Theory and Techniques (Set-up Man)
EN46	-	Plastics Theory and Techniques (Operator)
EN47	-	Plastics Theory and Techniques (Operator Hand Lay
EN48	-	Plastics Theory and Techniques (Machine Moulding)
EN49 & EN50	-	Plastics Theory and Techniques Technician B
EN51	-	Welder Fitter
EN52	-	Welding Operator
EN53	-	Welding Specialist
EN54	-	Welder Fitter Refresher
EN70	-	Ironworker (Apprentice)
EN71	-	Machinist Apprentice
EN72	-	Millwright Apprentice
EN74	-	Toolmaking Apprentice
EN75	-	Lathe Operator
EN76	-	Blueprint Reading for Welders (Basic)
EN77	-	Blueprint Reading for Welders (Advanced)

FOOD TECHNOLOGY

F1	-	Food Processing Technology
F2	-	Dietary Services Administration
F3	-	Food Administration
F4	-	Hotel-Motel Administration
F40	-	Bakery Technician
F41	-	Bakery Craft Courses
F42	-	Chef Training (Pre-Employment)
F43	-	Cook Training (Pre-Apprenticeship)
F44	-	Retail Meat Cutting - Butchery
F45	-	Baking Apprentice
F46	-	Chef Training - Apprentice
F47	-	Retail Meat Cutting and Butchery (Apprentice)
F70	-	Dining Room Service

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GRAPHIC ARTS

G1	-	Graphic Arts
G2	-	Graphic Design Technician
G40	-	Screen Printing
G42	-	Offset Printing
G43	-	Commercial Arts and Signwriting
G70	-	Offset Printing for Letterpressman
G71	-	Varitype Operator
G72	-	Paste-up Assembly for Typographers
G73	-	Photo Reproduction for Typographers
G74	-	Film Assembly and Printing Surface Preparation for Typographers

MARINE TECHNOLOGY

M1	-	Marine Engineering Cadet
M2	-	Navigation Officer Cadet
M(C)	-	Correspondence Courses
M(T)- M40, M41	-	Marine Tutorial Courses

SPECIAL TECHNIQUES

ST1	-	Creative Fashions
ST40	-	Garment Pattern-Making and Design
ST41	-	Dressmaking and Alterations
ST42	-	Power Sewing
ST43	-	Fur Business and Manufacturing Techniques
ST52	-	Furniture Refinishing and Repair
ST53	-	Furniture Upholstery and Repair
ST70	-	Barbering
ST71	-	Hairdressing
ST73	-	Certified Building Custodian
ST74	-	Commercial Vehicle Driving
ST75	-	Tractor Trailer Driving

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM:	GBC CODE NO.:	
ACADEMIC UPGRADING (B.T.S.D.) LEVEL 1	AS 41	
	OMRP CODE NO.: 401	

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
BLOOR CAMPUS COLLEGE CAMPUS	60 WEEKS	$180.00	CERTIFICATE

PREREQUISITES: none

GENERAL INFORMATION:

This program is designed for adults who wish to develop the basic literacy and computation skills required for entry into a skill training course.

Three core courses - mathematics, language and communications, and science - are offered, plus option courses that are appropriate to the student's final objective, such as typing, if the student is planning to enter the commercial field, or drafting, if the student is planning to enter the technical field.

Program Contents:			Credit Units per Semester:	Periods per Week:
Semester 1 & 11				
ENG	142	Language and Communications	18	18
MATH	142	Mathematics	12	12
			30	30
Semester 111				
ENG	143	Language and Communications	10	10
MATH	143	Mathematics	10	10
PHYS	143	Science	6	6
OPTION		Elective Studies	4	4
			30	30
Semester 1V				
ENG	143	Language and Communications	10	10
MATH	143	Mathematics	10	10
PHYS	143	Science	6	6
OPTION		Elective Studies	4	4
			30	30

NAME OF PROGRAM:	GBC CODE NO.:	LOCATION:	LENGTH:	FEES:	CERTIFICATION:
ACADEMIC UPGRADING (B.T.S.D.) LEVEL 11	AS 42	KEELE CAMPUS COLLEGE CAMPUS	32 WEEKS	$96.00	CERTIFICATE
	OMRP CODE NO.: 402				

PREREQUISITES:
Level 1 academic standing or equivalent (Grade 8)

GENERAL INFORMATION:

This program is designed to prepare adults who wish to enter Colleges of Applied Arts and Technology programs that presently require the equivalent to Grade 10.

Three core courses - mathematics, language and communications, and science - are offered, plus option courses that are appropriate to the student's final objective, such as typing, if the student is planning to enter the commercial field, or drafting, if the student is planning to enter the technical field.

Program Contents:			Credit Units per Semester:	Periods per Week:
Semester 1				
ENG	146	Language and Communications	7	7
MATH	146	Mathematics	7	7
PHYS	146	Science	7	7
OPTION		Typing 146 or Drafting 141	4	7
ES	146	Elective Studies	2	2
			27	30
Semester 11				
ENG	146	Language and Communications	7	7
MATH	146	Mathematics	7	7
PHYS	146	Science	7	7
OPTION		Typing 146 or Drafting 141	4	7
ES	146	Elective Studies	2	2
			27	30

NAME OF PROGRAM:	GBC CODE NO.:	LOCATION:	LENGTH:	FEES:	CERTIFICATION:
ACADEMIC UPGRADING (B.T.S.D.) LEVEL 111	AS 43	TERAULAY CAMPUS	32 WEEKS	$96.00	CERTIFICATE
	OMRP CODE NO.: 403				

PREREQUISITES:
Level 11 academic standing or equivalent (Grade 10)

GENERAL INFORMATION:

This program is designed to prepare adults who wish to enter Colleges of Applied Arts and Technology programs that presently require the equivalent to Grade 12.

Three core courses - mathematics, language and communications, and science - are offered, plus option courses that are appropriate to the student's final objective, such as typing, if the student is planning to enter the commercial field, or drafting, if the student is planning to enter the technical field.

Program Contents:			Credit Units per Semester:	Periods per Week:	
Semester 1					
ENG	147	Language and Communications	7	7	5
MATH	147	Mathematics	8	8	10
PHYS	147	Science	8	8	10
DR	142	Drafting	2.5	5	5
OPTION		Elective Studies	2	2	—
			27.5	30	30
Semester 11					
ENG	147	Language and Communications	7	7	5
MATH	147	Mathematics	8	8	10
PHYS	147	Science	8	8	10
DR	142	Drafting	2.5	5	5
OPTION		Elective Studies	2	2	—
			27.5	30	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: ENGLISH AS A SECOND LANGUAGE

GBC CODE NO.: LT-40

OMRP CODE NO.: 408

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
COLLEGE CAMPUS TERAULAY CAMPUS	24 WEEKS	$72.00	LETTER

PREREQUISITES: NONE

GENERAL INFORMATION:

The aim of this program is to provide the adult New Canadian with a level of fluency in English that will allow him to obtain appropriate employment.

The course emphasizes oral performance. The development of literacy skills is fostered to the degree relevant to the student's background and goal.

Program Contents:

Credit Units per Semester:

Periods per Week:

6 levels

4 weeks per level

40 periods per week

40 minutes per period

These levels are the primary frames of sequential grammatical and vocabulary development within the context of pertinent aspects of Canadian life.

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: OCCUPATIONAL ENGLISH

GBC CODE NO.: LT-70

OMRP CODE NO.: 438

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
BLOOR CAMPUS	6 WEEKS	$18.00	LETTER

PREREQUISITES: English Fluency equivalent to Level 6

GENERAL INFORMATION:

The purpose of this course is to teach terminology pertinent to specific employment areas. This course should only be initiated when there are sufficient students with the same occupational background and goal to form a class.

Program Contents:

Credit Units per Semester:

Periods per Week:

6 weeks

40 periods per week

40 minutes per period

The student is familiarized with the vocabulary and situations pertinent to the exercises of each occupation in Canada.

NAME OF PROGRAM: ENGLISH LANGUAGE FOR PROVISIONAL TRADESMEN

GBC CODE NO.: LT-71

OMRP CODE NO.: 300

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	44 WEEKS (Extension- 44 weeks, 7 1/2 hrs per week	$132.00	

PREREQUISITES:

Provisional certificate of qualification and recommendation by the Ontario Department of Labour.

GENERAL INFORMATION:

This course is designed to give the New Canadian tradesman sufficient English to write the Ontario Department of Labour's certified examination without the aid of a translator. The second, but equally important, aim is to give him enough English to pursue instruction in areas of his trade relevant to its practice in Canada in which his background may not be sufficient to meet Canadian standards.

Program Contents:

Credit Units per Semester:

Periods per Week:

Phase 1 - General English proficiency - 32 weeks

Phase 11 - The language of specific trades - 12 weeks

NAME OF PROGRAM: CHILD CARE WORKER

GBC CODE NO.: AP 1

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KENSINGTON CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES: Grade 12 minimum, preferably experienced with groups of children. Mature personality with broas life experience. Personal interview necessary. Minimum age - 18 years.

GENERAL INFORMATION:

Child Care Workers are responsible for the twenty-four hour care of disturbed children living away from their homes. Child Care Work is concerned with children from six years to the end of adolescence. Practical experience is gained through field work when students are under the direction of skilled supervisors who advise and guide them in their care of disturbed children.

Child Care Workers find employment in provincial institutions, treatment centres, private social agencies, group homes and hospitals.

Program Contents:

Credit Units per Semester:

Hours per Week:

FIRST YEAR

CHI	160	Field Practice	24
CHI	161	Human Growth and Development	3
CHI	162	Health and First Aid	2
CHI	164	Caring for the Disturbed Child	1½
CHI	165	Activities with Children	2
CHI	166	Social Services	1½
CHI	167	Student Group Seminar	1
CHI	168	Therapy of Play	1
			36

SECOND YEAR

CHI	260	Field Practice	24
CHI	261	Psychopathology of Childhood	1½
CHI	262	Caring for the Disturbed Child	1½
CHI	263	Individual in Society	1½
CHI	265	Activities with Children (Includes Swimming)	2
CHI	267	Student Group Seminar	1
CHI	268	Treatment Philosophies	1½
CHI	269	Professional Development (1½ Year)	1½
CHI	270	Group Process (½ Year)	1½
			36

NAME OF PROGRAM:	GBC CODE NO.: AP 2
DENTAL TECHNICIAN	OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	3 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES: A minimum of Grade 12 with Chemistry and Physics and in addition candidates should either have or develop a high degree of manual dexterity.

GENERAL INFORMATION:

The dental technician may be employed by one dentist or he may operate a laboratory alone; he may be the owner of a laboratory employing a few or more technicians or he may be an employee in a laboratory owned by an individual or a firm.

With the guidance and advice of a committee representing both the Royal College of Dental Surgeons of Ontario and the Governing Board of Dental Technicians, a 3 year program of studies is provided. This will include the theory and practice of all aspects of dental laboratory work and will include a related subject program designed to give insight into the problems of small business Management.

Program Contents:			Credit Units per Semester:	Periods per Week:
FIRST YEAR				
DENT	100	Dental Lab. and Lec. I	13	19
DENT	101	Dental Materials	1	1
DENT	102	Dental Anatomy	1	1
ENG	100	Language and Communication	2	2
DENT	103	Science of Dental Materials	2	2
CHEM	107	Chemistry	2	2
EC	100	Economics	1	1
MATH	107	Technical Mathematics	2	2
			24	30
SECOND YEAR				
DENT	200	Dental Lab. and Lec. II	17	23
ES	211	Effective Studies	1	1
MET	300	Metallurgy	2	2
MATH	207	Business Mathematics	1	1
CHEM	207	Chemistry	2	2
EC	200	Economics (Semester II)	1	1
			24	30
THIRD YEAR				
DENT	300	Dental Lab. and Lec. III	22	30
			22	30

NAME OF PROGRAM:	GBC CODE NO.: AP 3
ADDICTION COUNSELLOR	OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KENSINGTON CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES: Grade 12. An autobiographical sketch, and reasons for entering the course.

GENERAL INFORMATION:

Addiction Counsellors are trained to meet a growing public need for help with the increasingly difficult problem of chemical dependency, including alcohol, among people of all ages. Skilled care and assistance are needed in the form of public education, intervention and treatment. With specialized training, Addiction Counsellors learn to give services to a variety of individuals, agencies, and to the community.

Applicants may be drawn from people with widely differing experience, - the home, recent school graduation, business, industry, the ministry, nursing, volunteer work, and other fields. Special consideration is given to mature applicants who appear to have a special capacity to succeed in this field.

Program Contents:			Credit Units per Semester:	Hours per Week:
FIRST YEAR				
AD	100	Field Practice		16
AD	101	Human Growth and Behaviour		2
AD	102	Group Process		2
AD	103	Social Services and Community Interaction		2
AD	104	Pharmacology and Physiology		1
AD	105	Historical Review of Man's Dependence on Chemicals		2
AD	106	Theories and Principles of Therapy		2
AD	107	Introductory Sociology		2
AD	108	Philosophy		1
				30
SECOND YEAR				
AD	200	Field Practice		24
AD	201	Abnormal Behaviour and Dysfunctional Families		2
AD	202	Group Process		2
AD	203	Environmental Studies and the Family		2
AD	204	Review of Man's Dependence on Chemicals		2
AD	205	Practice of Therapy		2
				34

NAME OF PROGRAM:	GBC CODE NO.: AP 4
JEWELLERY ARTS	OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	2 YEARS Open 3rd year	$160.00 per year	CERTIFICATE 2 yrs DIPLOMA 3 yrs

PREREQUISITES:

Grade 12 of the 4 or 5 yr. program preferably with art options or a mature student with demonstrated interest and/or ability.

GENERAL INFORMATION:

Specialization is growing and thus our jewellery arts program is designed with this in mind. The initial ten weeks of the two-year program are devoted to the care and use of tools and equipment, basic processes, techniques, and elementary design. During the balance of the first year and second year students may select an area of Concentration: Goldsmithing, Gem-setting, Engraving, or Silversmithing. In order to qualify for a certificate a student must participate in all designed areas in order to gain sufficient credits; (22 credit hours for first year and 23 credit hours for the second year). A third year is also offered.

Program Contents:

		Credit Units per Semester:	Periods per Week:
FIRST YEAR			
JWL 160	Introduction to Jewellery	2	
Specialization depending on 10 Week Operation			
JWL 161	Goldsmithing	4	
or			
JWL 162	Gem-setting	4	
or			
JWL 163	Engraving	4	
or			
JWL 164	Silversmithing	4	
JWL 165	Theory of the Area of Specialization	2	
MET 166	Metallurgy	2	
GEM 167	Gemmology	2	
CHEM 168	Chemistry	2	
DES 169	Design	2	
ENG 132	Language and Communication	2	
SBM 132	Small Business Management	2	
ENA 170	Enamelling	2	
		22	

NAME OF PROGRAM:	GBC CODE NO.: AP 4
JEWELLERY ARTS Cont'd..	OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

		Credit Units per Semester:	Periods per Week:
SECOND YEAR			
Specialization depending on first year operation			
JWL 261	Goldsmithing	9	
or			
JWL 262	Gem-setting	9	
or			
JWL 263	Engraving	9	
or			
JWL 264	Silversmithing	9	
JWL 265	Theory of the Area of Specialization	3	
MET 266	Metallurgy	2	
GEM 267	Gemmology	3	
DES 269	Design	2	
ENA 270	Enamelling	2	
		21	

THIRD YEAR

Open Program
Programs are arranged on an individual basis

NAME OF PROGRAM:	GBC CODE NO.: AP 5
DAY CARE WORKER	OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KENSINGTON CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES: Grade 12 minimum preferably experienced with infants and very young children. Mature personality with broad life experience. Personal interview necessary.

GENERAL INFORMATION:

The increasing provision of day care facilities for infants by Metro Toronto Social Planning Council and by independent provincially accredited organizations indicates that employment prospects are good. It should be noted that this program has been developed in cooperation with The Canadian Mothercraft Society and has been designed for individuals who have a very special interest in infants and very young children.

Program Contents:

			Hours per Week:
FIRST YEAR			
DCW	100	Human Growth and Development	1½
DCW	101	Family Dynamics and Cultural Change	2
DCW	102	Principles of Mental Health (½ year)	1
DCW	103	Activities with Children	2
DCW	104	Caring for Children	1½
DCW	105	Health and First Aid	1
DCW	106	Nutrition (½ year)	1
DCW	107	Parent Interviewing and Counselling	1
DCW	108	Supervised Field Practice	20
			30
SECOND YEAR			
DCW	200	Child Growth and Development - 1st 3 years of life	2
DCW	201	Children with Special Needs	1
DCW	202	Legislation and the Social Services	1
DCW	203	Activities with Children	2
DCW	204	Professional Development and Ethics	1
DCW	205	Planning and Management of Day Care Facilities	2
DCW	206	Varieties of Day Care Provision	1
DCW	208	Supervised Field Practice	20
			30

NAME OF PROGRAM:	GBC CODE NO.: AP 41
DENTAL ASSISTANT	OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	1 YEAR	$160.00 per year	DIPLOMA

PREREQUISITES: Grade 12 of the four or five year program with Mathematics and preferably at least one science.

GENERAL INFORMATION:

The graduate of this program will have received a background in the dental sciences, operating room assistance, dental materials and limited dental laboratory methods, dental X-ray techniques, as well as business procedures that will allow her to function as an effective member of the dental team.

Since the Dental Assistant is in constant contact with the public, she should have poise and an outgoing personality.

Program Contents:

			Credit Units per Semester:	Periods per Week:
SEMESTER I				
DENT	104	Basic Health Science	4	4
DENT	102	Dental Anatomy	2	2
DENT	105	Dental Laboratory	1	3
DENT	106	Dental Materials	2	2
DENT	107	Dental Assisting	5	10
PSY	205	Psychology	1	1
DENT	108	Professional Development	1	1
OP	114	Office Practice	4	5
ENG	110	Business English and Correspondence	3	2
			23	30
SEMESTER II				
DENT	107	Dental Assisting	2	4
DENT	102	Dental Anatomy	2	2
DENT	109	Dental Radiology	2	3
DENT	105	Dental Laboratory	1	2
DENT	110	Oral Hygiene	1	1
OP	114	Office Practice	5	5
DENT	111	Clinical Practice	7	13
			20	30

NAME OF PROGRAM:	GBC CODE NO.:	OMRP CODE NO.:
HOSPITAL ORDERLY (TRAINING)	AP 50	627

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
COLLEGE STREET CAMPUS	20 WEEKS	$60.00	CERTIFICATE

PREREQUISITES: Candidate must have Grade 10 or equivalent standing. Applications should be made through Canada Manpower or the Principal of College Campus.

GENERAL INFORMATION:

The role of the hospital orderly in the nursing profession is one of ever-growing importance and rising status. He works under the direction of the professional nurse, caring for male patients with special emphasis on individual care. Professional preparation includes self-knowledge and attention to personal health and well-being. This focus moves from self to others and from health to illness. The emotional and physical demands of his work require a hospital orderly to have a tactful and pleasant manner and ability to work with others and to be adaptable. He should be observant, conscientious and reliant in the performance of his duties and have a genuine concern in caring for the sick.

Program Contents:			Credit Units per Semester:	Periods per Course:
HO	130	Hospital organization and routines		65
HO	131	Patient care + Mental Health		100
HO	132	Nursing procedures and skills + First Aid		70
HO	133	Anatomy and physiology (systems and approach)		25
HO	134	Nutrition and dietetics		10
HO	135	Practical work in hospital		300
PHYS	150	Science		20
MATH	146	Mathematics		10
		TOTAL HOURS		600

NAME OF PROGRAM:	GBC CODE NO.:	OMRP CODE NO.:
NURSERY AIDE	AP 51	429

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
COLLEGE STREET CAMPUS	16 WEEKS	$48.00	CERTIFICATE

PREREQUISITES: Grade 10, through Canada Manpower or George Brown College.

GENERAL INFORMATION:

The nursery aide is engaged in the actual care and guidance of pre-school age children under the direction of a qualified nursery supervisor in a nursery school or day nursery. Knowledge of the basic aims and procedures of routine and play activities in different types of nurseries is essential as well as a knowledge of young children. Physical stamina and good health are required in this field, as it is often necessary to lift a child or move materials and equipment.

In order to gain practical experience and to have the opportunity to observe younge children students are placed in day nurseries in the community.

Program Contents:			Credit Units per Semester:	Periods per Course:
NA	130	History of Preschool Education		12
NA	131	Types of Nursery Settings		6
NA	132	Guidance Methods		96
NA	133	Programs-Routine and Play		96
NA	134	Staff Relationships		18
NA	135	Child Development		72
NA	136	Mental Health		18
NA	137	First Aid		18
NA	138	Field Practice		144
		TOTAL HOURS		480

NAME OF PROGRAM:		GBC CODE NO.: AP 70	
TEACHING TECHNIQUES		OMRP CODE NO.:	
LOCATION:	**LENGTH:**	**FEES:**	**CERTIFICATION:**
CASA LOMA CAMPUS	3 WEEKS	$50.00	CERTIFICATE

PREREQUISITES: Anyone who is employed as an instructor or who may expect to be so employed.

GENERAL INFORMATION:

This course has been designed to help instructors improve their teaching skill to acquaint them with a greater variety of teaching techniques and to broaden their understanding of the teaching-learning process as it concerns adult education. This is essentially a practical course concerned with practices and techniques. It introduces only as much pedagogical theory as is essential to a rudimentary understanding of the processes involved.

Program Contents:		Credit Units per Semester:	Periods per Week:
ED 160	Teaching Techniques		

NAME OF PROGRAM.		GBC CODE NO.: AP 72	
CERTIFIED VISITING HOMEMAKER (POSTPONED)		OMRP CODE NO.: 414	
LOCATION.	**LENGTH:**	**FEES:**	**CERTIFICATION:**
COLLEGE STREET CAMPUS	12 WEEKS	$36.00	CERTIFICATE

PREREQUISITES: A mature woman with emotional steadiness, physical vigour, sincere interest and tolerance for all people plus some experience in plain cooking, child care and home management.

GENERAL INFORMATION:

This course is designed to prepare mature women to assume the management of a home in order to maintain and preserve whole some family life either under normal circumstances or when family life is threatened with disruption because of illness, death, social maladjustment or when other problems arise.

Visiting Homemakers find employment with Visiting Homemaker Associations throughout the province, Children's Aid Societies, commercial family or service agencies, Canada Manpower Employment Service, Welfare departments or such related fields as nursing homes or private employment.

Program Contents:		Credit Units per Semester:	Periods per Course:
VH 130	Child Growth and Development		36
VH 131	Function of the Family		12
VH 132	Geriatrics		18
VH 133	First Aid		18
VH 134	Home Nursing and Child Care		36
VH 135	Home Management and Budgeting		72
VH 136	Household Skills		36
VH 137	Community Resources		36
VH 138	Nutrition and Food Preparation		72
VH 139	Personal Guidance		6
VH 140	Mental Health		18
		TOTAL HOURS	360

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM:	GBC CODE NO.:
AIR CONDITIONING TECHNICIAN	AR 1
	OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES:

Grade 12

GENERAL INFORMATION:

The Air Conditioning technician has a specialized working knowledge of the design, installation and operation of air conditioning systems in residential, commercial and industrial buildings.

There are many challenging opportunities in the air conditioning industry for trained technicians interested in occupations such as sales promotion, system design, job estimating, contract supervision and system balancing.

Program Contents:

			Credit Units per Semester:	Periods per Week:
FIRST YEAR	Semester 1			
AIR	100	Refrigeration	8	10
AIR	105	Air Conditioning	6	7
DR	124	Drafting	2	2
EL	100	Electrical Fundamentals	3	3
INST	102	Instrumentation Fundamentals	2	2
MATH	100	Mathematics	3	3
ENG	100	Language and Communications	2	2
PHYS	100	Applied Physics 1	2	2
			28	31

NAME OF PROGRAM: AIR CONDITIONING TECHNICIAN Cont'd..

GBC CODE NO.: AR 1

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods per Week:
FIRST YEAR	Semester 11			
AIR	105	Air Conditioning	6	7
AIR	107	Hydronic Heating	2	2
DR	124	Drafting	2	2
EL	100	Electrical Fundamentals	3	3
HT	104	Heating	6	8
MATH	100	Mathematics	3	3
ENG	100	Language and Communications	2	2
PHYS	100	Applied Physics 1	2	2
			26	29

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: AIR CONDITIONING TECHNICIAN Cont'd..

GBC CODE NO.: AR 1

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES:

Grade 12

GENERAL INFORMATION:

The Air Conditioning technician has a specilized working knowledge of the design, installation and operation of air conditioning systems in residential, commercial and industrial buildings.

There are many challenging opportunities in the air conditioning industry for trained technicians interested in occupations such as sales promotion, system design, job estimating, contract supervision and system balancing.

Program Contents:			Credit Units per Semester:	Periods per Week:
SECOND YEAR	Semester 111			
AIR	201	Automatic Controls	3	3
AIR	203	Air Conditioning Systems and Equipment	7	9
DR	232	Drafting	3	4
HT	114	Heating	4	5
WELD	145-6	Welding	2	2
MATH	200	Mathematics	3	3
ENG	200	Language and Communications	2	2
MECH	102	Mechanics	2	2
			26	30

NAME OF PROGRAM: AIR CONDITIONING TECHNICIAN Cont'd..

GBC CODE NO.: AR 1

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods per Week:
SECOND YEAR Semester IV				
AIR	200	Refrigeration	6	7
AIR	201	Automatic Controls	3	3
AIR	203	Air Conditioning Systems and Equipment	7	9
AIR	205	Estimating	4	4
MATH	200	Mathematics	3	3
ENG	200	Language and Communications	2	2
MECH	102	Mechanics	2	2
			27	30

NAME OF PROGRAM: CIVIL ENGINEERING SURVEY TECHNICIAN - Municipal Engineering Or Legal Options

GBC CODE NO.: AR 2

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES:

Grade 12

GENERAL INFORMATION:

The Survey Technician course provides the basic theoretical and practical knowledge required for those who wish to enter surveying at the technician level.
The Student has a choice in the second year. The graduates of the Municipal Engineering option could expect to find employment in the construction or engineering fields where he could be drafting in the office or surveying in the field. The student pursuing the legal option would probably find employment working for a private Ontario Land Surveyor or otherwise providing the backup information for legal or property surveys.
Students with technologist potential at the end of the first semester may be permitted to transfer to the technologist program.

Program Contents:			Credit Units per Semester:	Periods per Week:
FIRST YEAR				
		Semester I		
CIV	100	Construction Materials and Methods	12	12
DR	120	Descriptive Geometry I	1.5	2
SURV	110	Surveying	2.5	4
MATH	100	Mathematics	5	5
ENG	100	Language and Communication	2	2
MECH	100	Mechanics	5	5
			28	30
		Semester II		
DR	121	Descriptive Geometry	1.5	2
SURV	100	Survey Computations and Drafting	4	6
SURV	101	Plane Surveying	6.5	10
MATH	100	Mathematics	4	4
ENG	100	Language and Communication	2	2
PHYS	100	Applied Physics I	6	6
			24	30

NAME OF PROGRAM: CIVIL ENGINEERING SURVEY TECHNICIAN - Municipal Engineering Option

GBC CODE NO.: AR 2

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES:

Grade 12

GENERAL INFORMATION:

Program Contents:

			Credit Units per Semester:	Periods per Week:
FIRST YEAR				
Engineering Option				
		Semester I		
CIV	200	Structures	1.5	2
CIV	202	Municipal Services	4	4
CIV	203	Transportation	4	4
CIV	204	Codes and Specifications	2	2
SURV	201	Advanced Plane Surveying	4	6
SURV	202	Photogrammetry	2	2
MATH	200	Mathematics	4	4
ENG	200	Language and Communications	2	2
EDP	101	Introduction to Computer Programming (Part A)	3	4
			26.5	30
		Semester II		
CIV	200	Structures	1.5	2
CIV	202	Municipal Services	4	4
CIV	203	Transportation	4	4
CIV	204	Codes and Specifications	2	2
SURV	201	Advanced Plane Surveying	4	6
SURV	202	Photogrammetry	2	2
MATH	200	Mathematics	4	4
ENG	200	Language and Communications	2	2
EC	100	Economics	4	4
			27.5	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: CIVIL ENGINEERING SURVEY TECHNICIAN - Legal Option

GBC CODE NO.: AR 2

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES:

Grade 12

GENERAL INFORMATION:

Program Contents:

			Credit Units per Semester:	Periods per Week:
SECOND YEAR				
Legal Option				
		Semester I		
CIV	202	Municipal Services	4	4
SURV	200	Survey Computations and Drafting	2.5	4
SURV	201	Advanced Plane Surveying	4	6
SURV	202	Photogrammetry	2	2
SURV	203	Practical Astronomy	2	2
SURV	204	Legal Surveying	2	2
MATH	200	Mathematics	4	4
ENG	200	Language and Communications	2	2
EDP	101	Introduction to Computer Programming (Part A)	3	4
			25.5	30
		Semester II		
CIV	202	Municipal Services	4	4
SURV	200	Survey Computations and Drafting	2.5	4
SURV	201	Advanced Plane Surveying	4	6
SURV	202	Photogrammetry	2	2
SURV	203	Practical Astronomy	2	2
SURV	204	Legal Surveying	2	2
MATH	200	Mathematics	4	4
ENG	200	Language and Communications	2	2
EC	100	Economics	4	4
			26.5	30

NAME OF PROGRAM: CIVIL ENGINEERING - CONSTRUCTION TECHNICIAN

GBC CODE NO.: AR 3

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES:

Grade 12

GENERAL INFORMATION:

With the guidance and advice of a committee representing the construction and allied industries, this course is designed to prepare young men to enter the construction industry in various capacities leading to positions as estimators, expeditors, building inspectors, building products salesmen, field engineers and superintendents. These positions are not seasonal in nature.

Program Contents:			Credit Units per Semester:	Periods per Week:
FIRST YEAR		Semester 1		
CIV	100	Construction Materials and Methods	12	12
DR	120	Descriptive Geometry 1	1.5	2
SURV	110	Surveying	2.5	4
MATH	100	Mathematics	5	5
ENG	100	Language and Communications	2	2
MECH	100	Mechanics	5	5
			28	30
		Semester 11		
CO	100	Building Construction	2.5	4
CO	101	Quantity Surveying 1	8	8
CO	102	Mechanical Installations 1	3	3
CO	103	Construction Materials	3	3
MATH	100	Mathematics	4	4
ENG	100	Language and Communications	2	2
PHYS	100	Applied Physics 1	6	6
			28.5	30

NAME OF PROGRAM: CIVIL ENGINEERING - CONSTRUCTION TECHNICIAN Cont'd..

GBC CODE NO.: AR 3

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods per Week:
SECOND YEAR				
CO	104	Site Engineering	1.5	2
CO	200	Building Construction	2.5	4
CO	201	Quantity Surveying 11	6	6
CO	202	Mechanical Installations 11	4	4
CO	203	Contracts and Specifications	4	4
MATH	200	Mathematics	4	4
ENG	200	Language and Communications	2	2
EC	100	Economics	2	2
MECH	110	Mechanics of Materials	2	2
			28	30

NAME OF PROGRAM: DRAFTING TECHNICIAN - ARCHITECTURAL

GBC CODE NO.: AR 4

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES: Grade 12

GENERAL INFORMATION:

This course is designed to provide technicians for architects' offices, construction companies, engineering firms, and government departments. The program of instruction is arranged to provide skills in architectural drawing, detailing, rendering, and model building; and to provide knowledge of architectural design, contracts, organization, and business relationships.

Graduates find employment as draftsmen, field representatives, building products salesmen, and expeditors.

Program Contents:			Credit Units per Semester:	Periods per Week:
FIRST YEAR		Semester 1		
CIV	100	Construction Materials and Methods	12	12
DR	120	Descriptive Geometry 1	1.5	2
SURV	110	Surveying	2.5	4
MATH	100	Mathematics	5	5
ENG	100	Language and Communications	2	2
MECH	100	Mechanics	5	5
			28	30
		Semester 11		
ARCH	100	Materials and Methods	2	2
DR	102	Architectural Drafting 1	6.5	10
DR	120	Descriptive Geometry 1	1.5	2
MATH	100	Mathematics	4	4
ENG	100	Language and Communications	2	2
EC	100	Economics	4	4
PHYS	100	Applied Physics 1	6	6
			26	30

NAME OF PROGRAM: DRAFTING TECHNICIAN - ARCHITECTURAL Cont'd

GBC CODE NO.: AR 4

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods per Week:
SECOND YEAR				
ARCH	200	Materials and Methods	3	3
ARCH	201	History of Architecture	1	1
CO	101	Quantity Surveying	1	1
DR	111	Mechanical Drafting	2	3
DR	115	Structural Drafting	1.5	2
DR	202	Architectural Drafting 11	6.5	10
DR	220	Descriptive Geometry 11	1.5	2
MATH	200	Mathematics	4	4
ENG	200	Language and Communications	2	2
MECH	100	Mechanics of Materials	2	2
			24.5	30

NAME OF PROGRAM: DRAFTING TECHNICIAN - GENERAL

GBC CODE NO.: AR 5

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES:

Grade 12

GENERAL INFORMATION:

Versatility is the keynote of this course by preparing a draftsman for industry who has a general knowledge of the architectural, civil, survey and mechanical fields. A draftsman with such a versatile background should be an asset to any drafting office in that his services could be utilized in the various drafting fields.

Program Contents:

			Credit Units per Semester:	Periods per Week:
FIRST YEAR		Semester 1		
CIV	100	Construction Materials and Method	12	12
DR	120	Descriptive Geometry 1	1.5	2
SURV	110	Surveying	2.5	4
MATH	100	Mathematics	5	5
ENG	100	Language and Communication	2	2
MECH	100	Mechanics	5	5
			28	30
		Semester 11		
DR	102	Architectural Drafting 1	6	9
DR	125	Machine Drafting 1	6	9
DR	108	Structural Drafting 1	2.5	4
DR	120	Descriptive Geometry 1	1.5	2
MATH	100	Mathematics	4	4
ENG	100	Language and Communication	2	2
			22	30

NAME OF PROGRAM: DRAFTING TECHNICIAN - GENERAL Cont'd..

GBC CODE NO.: AR 5

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

			Credit Units per Semester:	Periods per Week:
SECOND YEAR				
DR	154	Art and Presentation	1.5	2
DR	202	Architectural Drafting 11	4.5	7
DR	231	Machine Drafting 11	4	6
MACH	110	Workshop Technology	2	4
MATH	200	Mathematics	4	4
ENG	200	Language and Communication	2	2
MECH	110	Mechanics of Materials	2	2
PHYS	100	Applied Physics 1	3	3
			23	30

NAME OF PROGRAM.	GBC CODE NO.:
(Pending Approval) CIVIL ENGINEERING - SURVEY TECHNOLOGIST	AR 6 OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES:

Ontario Grade 12 with above average in Mathematics and Science.

GENERAL INFORMATION:

The Survey Technologist program prepares the graduate to cope with a wide range of tasks varying from quite simple operations to the solution of complex technical problems requiring technical proficiency and personal judgement.

Graduates of the program may find employment in government offices or with a firm of Ontario Land Surveyors.

The survey technologist is equipped to operate at the senior party chief level. He could also fill the position of senior draftsman or office manager in a survey office. He would be qualified to accept responsibility for a project from its inception to its conclusion and to consult with the professional or enginee on the legal and technical aspects of the project.

In practicing his career the survey technologist is involved in operating survey equipment, carrying out field, topographical, and legal surveys, interpreting aerial photographs, preparing field notes, programming computers, searching property ownership, and preparing plans and documents.

Program Contents:			Credit Units per Semester:	Periods Per Week:
FIRST YEAR				
		Module I		
CIV	100	Construction Materials and Methods	12	12
DR	120	Descriptive Geometry I	1.5	2
SURV	110	Surveying	2.5	4
MATH	100	Mathematics	5	5
ENG	100	Language and Communication	2	2
MECH	100	Mechanics	5	5
			28	30

NAME OF PROGRAM.	GBC CODE NO.:
CIVIL ENGINEERING - SURVEY TECHNOLOGIST Cont'd..	AR 6 OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods Per Week:
FIRST YEAR cont'd				
		Module II		
DR	121	Descriptive Geometry	1.5	2
SURV	100-T	Survey Computations and Drafting	3.5	5
SURV	101-T	Plane Surveying	5.5	8
MATH	100-T	Mathematics	5	5
ENG	100	Language and Communication	2	2
EC	100	Economics	4	4
PHYS	100-T	Applied Physics I	5	5
			26.5	31
		Module III		
DR	221	Descriptive Geometry	1.5	2
SURV	200-T	Survey Computations and Drafting	4.5	7
SURV	201-T	Advanced Plane Surveying	6.5	10
MATH	200-T	Mathematics	5	5
ENG	200	Language and Communication	2	2
EL	130	Electrical Fundamentals	3	4
			22.5	30

Technical Report between third and sixth modules.

NAME OF PROGRAM: CIVIL ENGINEERING
SURVEY TECHNOLOGIST Cont'd..

GBC CODE NO.: AR 6

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:		Credit Units per Semester:	Periods per Week:
SECOND YEAR			
	Module IV		
CIV 202	Municipal Services	4	4
SURV 200-T	Survey Computations and Drafting	2.5	4
SURV 201-T	Advanced Plane Surveying	4	6
SURV 202	Photogrammetry	2	2
SURV 203	Practical Astronomy	2	2
SURV 204	Legal Surveying	2	2
MATH 200-T	Mathematics	5	5
ENG 200	Language and Communication	2	2
EDP 101	Introduction to Computer Programming (Part A)	3	4
		26.5	31
	Module V		
CIV 202	Municipal Services	4	4
SURV 203	Practical Astronomy	2	2
SURV 204	Legal Surveying	2	2
SURV 300-T	Cartography	2.5	4
SURV 301-T	Advanced Plane Surveying	5.5	8
SURV 302-T	Photogrammetry	3	3
MATH 300-T	Mathematics (Statistics)	5	5
ENG 332	Business Communication	2	2
		26	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: CIVIL ENGINEERING
SURVEY TECHNOLOGIST Cont'd..

GBC CODE NO.: AR 6

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:		Credit Units per Semester:	Periods per Week:
SECOND YEAR Cont'd			
	Module VI		
CIV 302-T	Municipal Services	4	4
SURV 300-T	Cartography	4	6
SURV 301-T	Advanced Plane Surveying	4	6
SURV 302-T	Photogrammetry	3	3
SURV 303-T	Practical Astronomy	2	2
SURV 304-T	Legal Surveying	2	2
MATH 301-T	Mathematics (Matrices)	5	5
ENG 332	Business Communication	2	2
		26	30

NAME OF PROGRAM: DRAFTING TECHNICIAN-MECHANICAL SERVICES

GBC CODE NO.: AR 7

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES:

Grade 12

GENERAL INFORMATION:

This course is designed to prepare technicians for positions in an architect's or consultant's office as a draftsman or estimator in the mechanical installation department. The student will gain some knowledge of the design and a thorough knowledge of the graphical layout of all the mechanical services required in an architectural structure, plus a general knowledge of the architectural and structural components and methods of construction. A very broad and indepth study is taken in the areas of air conditioning, refrigeration, warm air, water and steam heating systems, plumbing and drainage systems.

Program Contents:

			Credit Units per Semester:	Periods per Week:
FIRST YEAR				
		Semester I		
CIV	100	Construction Materials and Methods	12	12
DR	120	Descriptive Geometry I	1.5	2
SURV	110	Surveying	2.5	4
MATH	100	Mathematics	5	5
ENG	100	Language and Communication	2	2
MECH	100	Mechanics	5	5
			28	30

NAME OF PROGRAM: DRAFTING TECHNICIAN MECHANICAL SERVICES Cont'd

GBC CODE NO.: AR 7

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

			Credit Units per Semester:	Periods per Week:
FIRST YEAR				
		Semester II		
DR	106	Architectural Drafting I	2.5	4
DR	107	Mechanical Installation Drafting I	5.5	8
DR	109	Electrical Installation Drafting I	2.5	4
DR	120	Descriptive Geometry I	1.5	2
MATH	100	Mathematics	4	4
ENG	100	Language and Communication	2	2
PHYS	100	Applied Physics I	6	6
			24	30
SECOND YEAR				
DR	228	Air Conditioning and Refrigeration	5.5	8
DR	229	Heating Systems	2.5	4
DR	230	Plumbing Systems	4	6
MATH	200	Mathematics	4	4
ENG	200	Language and Communication	2	2
MECH	110	Mechanics of Materials	3	3
MECH	115	Mechanics of Fluids	3	3
			24	30

NAME OF PROGRAM: DRAFTING TECHNICIAN - STRUCTURAL

GBC CODE NO.: AR 8

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES: Grade 12

GENERAL INFORMATION:

For the young man gifted with a talent for technical work, the opportunity to play a part in the construction industry offers a most interesting vocation. To be one of the team which is building the modern scene is itself a satisfying experience. It is for the purpose of assisting the young man with ambition that this course is offered. Graduates of the course will find a waiting field in engineering offices, fabricating companies, municipal and governmental offies.

Program Contents:

			Credit Units per Semester:	Periods per Week:
FIRST YEAR		Semester 1		
CIV	100	Construction Materials and Methods	12	12
DR	120	Descriptive Geometry 1	1.5	2
SURV	110	Surveying	2.5	4
MATH	100	Mathematics	5	5
ENG	100	Language and Communication	2	2
MECH	100	Mechanics	5	5
			28	30
		Semester 11		
CO	200	Building Construction	2.5	4
DR	120	Descriptive Geometry 1	2.5	4
STR	122	Structural Detailing	6.5	10
MATH	100	Mathematics	4	4
ENG	100	Language and Communication	2	2
MECH	110	Mechanics of Materials	6	6
			23.5	30

NAME OF PROGRAM: DRAFTING TECHNICIAN - STRUCTURAL Cont'd

GBC CODE NO.: AR 8

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

			Credit Units per Semester:	Periods per Week:
SECOND YEAR		Semester 1		
CO	103	Construction Materials	3	3
CO	204	Mechanical and Electrical Installations	2	3
STR	212	Structural Steel - Problems and Drawing	5.5	8
STR	213	Reinforced Concrete - Problems and Drawing	4.5	7
MATH	200	Mathematics	4	4
ENG	200	Language and Communication	2	2
MECH	210	Mechanics of Materials	3	3
			24	30
		Semester 11		
CO	103	Construction Materials	3	3
CO	204	Mechanical and Electrical Installations	2	3
STR	214	Project Drawing	10	15
MATH	200	Mathematics	4	4
ENG	200	Language and Communication	2	2
MECH	210	Mechanics of Materials	3	3
			24	30

NAME OF PROGRAM: CIVIL ENGINEERING - CONCRETE TECHNICIAN

GBC CODE NO.: AR 9

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES:

Grade 12

GENERAL INFORMATION:

This program is designed to equip the graduate with the knowledge and techniques required for employment within the ever-expanding concrete industry.

The graduate will be able to operate at a significant and unique place in the labour force - between the engineer and the skilled craftsman. He will be familiar with the responsibilities and talents of both.

The curriculum has been designed to encompass a wide range of courses and will open up job opportunities in concrete construction, inspection, manufacturing, supply and sales.

Program Contents:

			Credit Units per Semester:	Periods per Week:
FIRST YEAR		Semester 1		
CIV	100	Construction Materials and Methods	12	12
DR	120	Descriptive Geometry 1	1.5	2
SURV	110	Surveying	2.5	4
MATH	100	Mathematics	5	5
ENG	100	Language and Communication	2	2
MECH	100	Mechanics	5	5
			28	30
		Semester 11		
CO	101	Quantity Surveying 1	4	4
CO	105	Principles of Concrete	2.5	4
CO	106	Concrete Construction Methods 1	4	6
CO	107	Blueprint Reading and Drafting	2.5	4
MATH	100	Mathematics	4	4
ENG	100	Language and Communication	2	2
MECH	110	Mechanics of Materials	6	6
			25	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: CIVIL ENGINEERING CONCRETE TECHNICIAN Cont'd..

GBC CODE NO.: AR 9

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

			Credit Units per Semester:	Periods per Week:
SECOND YEAR		Semester I		
CO	203	Contracts and Specifications	4	4
CO	205	Concrete Structural Design	5	5
CO	206	Concrete Construction Methods II	3.5	5
CHEM	215	Chemistry	4	4
PSY	204	Industrial Psychology and Salesmanship	4	4
MATH	200	Mathematics	5	5
ENG	200	Language and Communication	3	3
			28.5	30
		Semester II		
CO	203	Contracts and Specifications	4	4
CO	205	Concrete Structural Design	5	5
CO	206	Concrete Construction Methods II	3.5	5
EC	214	Business Management and Labour Relations	4	4
CHEM	215	Chemistry	4	4
MATH	200	Mathematics	5	5
ENG	200	Language and Communication	3	3
			28.5	30

NAME OF PROGRAM: DRAFTING

GBC CODE NO.: AR 40

OMRP CODE NO.: 615

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	1 YEAR (40 week)	Based on $3.00 per week.	CERTIFICATE

PREREQUISITES:

Grade 10

GENERAL INFORMATION:

Graduates of this course find employment in architectural and engineering offices, municipal and provincial offices and electrical or electronic offices. Students graduating from this program with honours standing will be considered for admission in the technician program.

Program Contents:			Credit Units per Semester:	Periods per Week:
DR	151	Architectural Drawing	6	9
DR	152	Mechanical Drawing	4.5	7
DR	153	Schematic Drawing	3.5	5
DR	154	Art and Presentation	2.5	4
MATH	130	Mathematics	3	3
ENG	130	Language and Communication	2	2
			21.5	30

NAME OF PROGRAM: OIL BURNER SERVICING

GBC CODE NO.: AR 41

OMRP CODE NO.: 634

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	20 WEEKS	Based on $3.00 per week	CERTIFICATE

PREREQUISITES:

Grade 10

GENERAL INFORMATION:

During the past years, hundreds of thousands of automatic heating systems have been installed in Canada. This expansion has brought with it demands for qualified personnel to install and maintain this equipment.

Program Contents:			Credit Units per Semester:	Periods per Week:
HT	130	Domestic Oil Burners	3.5	5
HT	131	Oil Burners	5.5	8
HT	132	Heating	2	3
HT	140	Gas Burners	2.5	4
DR	131	Drafting and Blueprint Reading	1.5	2
MATH	133	Mathematics	4	4
ENG	141	Language and Communication	2	2
PHYS	133	Applied Physics	2	2
			23	30

NAME OF PROGRAM: HEATING TECHNICIAN

GBC CODE NO.: AR 42

OMRP CODE NO.: 651

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	1 YEAR (40 weeks)	Based on $3.00 per week	CERTIFICATE

PREREQUISITES:

Grade 12

GENERAL INFORMATION:

In the heating field, there is a considerable demand for technical personnel who are knowledgeable in oil, gas and electric heating and cooling systems. This demand has been created, in part, by the expansion of building construction.

Program Contents:			Credit Units per Semester:	Periods per Week:
SEMESTER I				
HT	100	Domestic Oil Burners	3.5	5
HT	101	Oil Burners	5.5	8
HT	102	Heating	2	3
HT	103	Heating	2.5	4
PHYS	100	Applied Physics 1	2	2
MATH	100	Mathematics	4	4
ENG	100	Language and Communication	2	2
DR	100	Technical Drawing	1.5	2
			23	30
SEMESTER II				
HT	110	Heating	5.5	8
HT	111	Heating	4.5	7
HT	112	Heating	2	3
HT	113	Heating	1.5	2
PHYS	100	Applied Physics I	2	2
MATH	100	Mathematics	4	4
ENG	100	Language and Communication	2	2
DR	100	Technical Drawing	1.5	2
			23	30

NAME OF PROGRAM: REFRIGERATION AND AIR CONDITIONING

GBC CODE NO.: AR 44

OMRP CODE NO.: 641

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KENSINGTON CAMPUS	2 SEMESTERS (34 weeks)	Based on $3.00 per week	CERTIFICATE

PREREQUISITES:

Grade 10

GENERAL INFORMATION:

This course is designed to prepare young men to enter an apprenticeship program leading to certification (compulsory in Ontario) as a journeyman refrigeration mechanic. This is an excellent opportunity for any young man who left school before completing grade 12 to enter a challenging trade that pays well and assures full-time employment. Under an agreement with Industrial Training branch of the Department of Labour, graduates of this course are granted equivalent time off the apprenticeship period and are excused the in-school requirements of the basic course (see Apprenticeship section).

Program Contents:			Credit Units per Semester:	Periods per Week:
DR	136	Drafting	2	3
EL	133	Electrical Theory	2	2
REF	130	Refrigeration Theory	9	9
REF	131	Refregeration Practice	5	10
WELD	140	Oxy-acetylene Welding, Brazing and Cutting	0.5	1
MATH	134	Mathematics	3	3
ENG	130	Language and Communication	2	2
			23.5	30

NAME OF PROGRAM: APPLIANCE SERVICING

GBC CODE NO.: AR 45

OMRP CODE NO.: 601

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	1 YEAR (40 weeks)	Based on $3.00 per week	CERTIFICATE

PREREQUISITES:

Grade 10

GENERAL INFORMATION:

This course is designed to give a thorough knowledge of the theory and practice required for the maintenance and repair of home appliances. The student should have a high mechanical aptitude. Students are prepared for such occupations as service-men, factory representatives, field representatives, appliance salesmen, appliance inspectors and production supervisors.

Program Contents:

			Credit Units per Semester:	Periods per Week:
AP	130	Laundry Equipment	5	7
AP	132	Refrigeration	5	7
AP	133	Electrical Appliances	5	7
DR	155	Drafting and Blueprint Reading	1	1
MATH	134	Mathematics	2	2
ENG	130	Language and Communication	2	2
PHYS	138	Applied Physics	2	2
SBM	132	Small Business Management	2	2
			24	30

NAME OF PROGRAM: SIGNWRITING

GBC CODE NO.: AR 46

OMRP CODE NO.: 633

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	1 YEAR (40 weeks)	Based on $3.00 per week	CERTIFICATE

PREREQUISITES: Grade 10 - A combination of education and experience considered equivalent by the Registrar.

GENERAL INFORMATION:

Many large department stores, manufacturing companies, advertising agencies, and retail outlets maintain a staff of sign-writers to produce new signs, posters and advertising displays.

Although the competition in this vocation is vigorous, there is ample opportunity for those who show creative ability and commercial effectiveness in their work.

Program Contents:

			Credit Units per Semester:	Periods per Week:
SIGN	130	Basic Signwriting and Introduction to Screen Process Printing	15	25
MATH	134	Mathematics	3	3
ENG	130	Language and Communication	2	2
			20	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM.	GBC CODE NO.: AR 70
CARPENTRY	OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KENSINGTON CAMPUS	Basic 8 weeks Intermediate 7 Advanced 7 "	SPONSORED	CERTIFICATE

PREREQUISITES:

GENERAL INFORMATION:

Length of Apprenticeship term:
Four periods of 1,800 hours

Program Contents:			Credit Units per Semester:	Periods per Week:
BASIC PROGRAM				
CAR	10	Carpentry 1	9	22
MATH	10	Mathematics	1.5	3
ENG	10	English	1	2
DR	10	Drafting	1.5	3
			13	30
INTERMEDIATE PROGRAM				
CAR	20	Carpentry 11	9	22
MATH	20	Mathematics	1.5	3
ENG	20	English	1	2
DR	20	Drafting	1.5	3
			13	30
ADVANCED PROGRAM				
CAR	30	Carpentry 111	9	22
MATH	30	Mathematics	1.5	3
ENG	30	English	1	2
DR	31	Drafting	1.5	3
			13	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM.	GBC CODE NO.: AR 71
LATHING	OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	Basic 10 wks. Intermediate " Advanced "	SPONSORED	CERTIFICATE

PREREQUISITES:

GENERAL INFORMATION:

Length of Apprenticeship Term:
Three periods of 1,800 hours

Program Contents:			Credit Units per Semester:	Periods per Week:
BASIC PROGRAM				
LATH	10	Lathing 1	7.5	20
MATH	10	Mathematics	1.5	3
ENG	10	English	1	2
DR	10	Drafting	1	2
WELD	10	Welding	1	3
			12	30
INTERMEDIATE PROGRAM				
LATH	20	Lathing 11	7.5	20
MATH	20	Mathematics	1.5	3
ENG	20	English	1	2
DR	20	Drafting	1	2
WELD	21	Welding	1	3
			12	30
ADVANCED PROGRAM				
LATH	30	Lathing 111	7.5	20
MATH	30	Mathematics	1.5	3
ENG	30	English	1	2
DR	36	Drafting	1	2
WELD	31	Welding	1	3
			12	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: MASONRY

GBC CODE NO.: AR 72

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	Basic 8 weeks Intermediate 7 " Advanced 7 "	SPONSORED	CERTIFICATE

PREREQUISITES:

GENERAL INFORMATION:

Length of Apprenticeship Term:
Four periods of 1,600 hours

Program Contents:			Credit Units per Semester:	Periods per Week:
BASIC PROGRAM				
MAS	10	Masonry 1	7.5	20
MATH	10	Mathematics	1	2
ENG	10	English	1	2
DR	10	Drafting	1.5	3
WELD	10	Welding	1	3
			12	30
INTERMEDIATE PROGRAM				
MAS	20	Masonry 11	7.5	20
MATH	20	Mathematics	1	2
ENG	20	English	1	2
DR	20	Drafting	1.5	3
WELD	20	Welding	1	3
			12	30
ADVANCED PROGRAM				
MAS	30	Masonry 111	7.5	20
MATH	30	Mathematics	1	2
ENG	30	English	1	2
DR	30	Drafting	1.5	3
WELD	30	Welding	1	3
			12	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: PAINTING AND DECORATING

GBC CODE NO.: AR 73

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	Basic 8 weeks Intermediate 7 " Advanced 7 "	SPONSORED	CERTIFICATE

PREREQUISITES:

GENERAL INFORMATION:

Length of Apprenticeship Term:
Four periods of 1,800 hours

Program Contents:			Credit Units per Semester:	Periods per Week:
BASIC PROGRAM				
PAINT	10	Painting and Decorating 1	9	23
MATH	10	Mathematics	1.5	3
ENG	10	English	1	2
DR	10	Drafting	1	2
			12.5	30
INTERMEDIATE PROGRAM				
PAINT	20	Painting and Decorating 11	9	23
MATH	20	Mathematics	1.5	3
ENG	20	English	1	2
DR	20	Drafting	1	2
			12.5	30
ADVANCED PROGRAM				
PAINT	30	Painting and Decorating 111	9	23
MATH	30	Mathematics	1.5	3
ENG	30	English	1	2
DR	35	Drafting	1	2
			12.5	30

NAME OF PROGRAM: PLASTERING

GBC CODE NO.: AR 74

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	Basic 8 weeks Intermediate 7 " Advanced 7 "	SPONSORED	CERTIFICATE

PREREQUISITES:

GENERAL INFORMATION:

Length of Apprenticeship Term:
Four periods of 1,600 hours

Program Contents:			Credit Units per Semester:	Periods per Week:
BASIC PROGRAM				
PLAS	10	Plastering I	9	23
MATH	10	Mathematics	1.5	3
ENG	10	English	1	2
DR	10	Drafting	1	2
			12.5	30
INTERMEDIATE PROGRAM				
PLAS	20	Plastering II	9	23
MATH	20	Mathematics	1.5	3
ENG	20	English	1	2
DR	20	Drafting	1	2
			12.5	30
ADVANCED PROGRAM				
PLAS	30	Plastering III	9	23
MATH	30	Mathematics	1.5	3
ENG	30	English	1	2
DR	36	Drafting	1	2
			12.5	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: PLUMBING

GBC CODE NO.: AR 75

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KENSINGTON CAMPUS	Basic 8 weeks Intermediate 7 Advanced 7	SPONSORED	CERTIFICATE

PREREQUISITES:

GENERAL INFORMATION:

Length of Apprenticeship Term:
Five periods of 1,800 hours

Program Contents:			Credit Units per Semester:	Periods per Week:
BASIC PROGRAM				
PLUM	10	Plumbing I	9.5	21
MATH	10	Mathematics	1	2
ENG	10	English	0.5	2
PHYS	12	Applied Physics	0.5	1
DR	10	Drafting	1	2
WELD	10	Weldi	0.5	2
			13	30
INTERMEDIATE PROGRAM				
PLUM	20	Plumbing II	9.5	21
MATH	20	Mathematics	1	2
ENG	20	English	0.5	2
PHYS	22	Applied Physics	0.5	1
DR	20	Drafting	1	2
WELD	20	Welding	0.5	2
			13	30

NAME OF PROGRAM: PLUMBING Cont'd..

GBC CODE NO.: AR 75

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods Per Week:
ADVANCED PROGRAM				
PLUM	30	Plumbing III	9	19
MATH	30	Mathematics	1	2
ENG	30	English	0.5	2
PHYS	32	Applied Physics	0.5	1
DR	37	Drafting	1	2
WELD	30	Welding	1	4
			13	30

NAME OF PROGRAM: REFRIGERATION AND AIR CONDITIONING

GBC CODE NO.: AR 76

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KENSINGTON CAMPUS	Basic 8 weeks Intermediate 7 Advanced 7 "	SPONSORED	CERTIFICATE

PREREQUISITES:

GENERAL INFORMATION:

Length of Apprenticeship Term:
Five periods of 1,800 hours

Program Contents:			Credit Units per Semester:	Periods per Week:
BASIC PROGRAM				
REF	10	Refrigeration and Air Conditioning 1	9	21
MATH	10	Mathematics	1	2
ENG	10	English	1	2
PHYS	15	Applied Physics	0.5	1
DR	18	Drafting	1	2
WELD	10	Welding	0.5	2
			13	30
INTERMEDIATE PROGRAM				
REF	20	Refrigeration and Air Conditioning 11	9	21
MATH	20	Mathematics	1	2
ENG	20	English	1	2
PHYS	25	Applied Physics	0.5	1
DR	28	Drafting	1	2
WELD	20	Welding	0.5	2
			13	30

NAME OF PROGRAM: REFRIGERATION AND AIR CONDITIONING Cont'd

GBC CODE NO.: AR 76

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

			Credit Units per Semester:	Periods per Week:
ADVANCED PROGRAM				
REF	30	Refrigeration and Air Conditioning 111	9	21
MATH	30	Mathematics	1	2
ENG	30	English	1	2
PHYS	35	Applied Physics	0.5	1
DR	38	Drafting	1	2
WELD	30	Welding	0.5	2
			13	30

NAME OF PROGRAM: SHEET METAL MECHANIC

GBC CODE NO.: AR 77

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KENSINGTON CAMPUS	Basic 8 week Intermediate 7 Advanced 7 "	SPONSORED	CERTIFICATE

PREREQUISITES: Grade 12 Credit (See information on Apprentice Program)
200 hours in each period

GENERAL INFORMATION:

Length of Apprenticeship Term:
Five periods of 1,800 hours

Program Contents:

			Credit Units per Semester:	Periods per Week:
BASIC PROGRAM				
SM	10	Sheet Metal Mechanic 1	9.5	21
MATH	10	Mathematics	1	2
ENG	10	English	0.5	2
PHYS	13	Applied Physics	0.5	1
DR	10	Drafting	1	2
WELD	10	Welding	0.5	2
			13	30
INTERMEDIATE PROGRAM				
SM	20	Sheet Metal Mechanic 11	9.5	21
MATH	20	Mathematics	1	2
ENG	20	English	0.5	2
PHYS	23	Applied Physics	0.5	1
DR	20	Drafting	1	2
WELD	20	Welding	0.5	2
			13	30

NAME OF PROGRAM: SHEET METAL MECHANIC Cont'd..

GBC CODE NO.: AR 77

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

ADVANCED PROGRAM

			Credit Units per Semester:	Periods per Week:
SM	30	Sheet Metal Mechanics 111	9.5	21
MATH	30	Mathematics	1	2
ENG	30	English	0.5	2
PHYS	33	Applied Physics	0.5	1
DR	39	Drafting	1	2
WELD	11	Welding	0.5	2
			13	30

NAME OF PROGRAM: STEAMFITTING

GBC CODE NO.: AR 78

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KENSINGTON CAMPUS	Basic 8 week Intermediate 7 " Advanced 7 "	SPONSORED	CERTIFICATE

PREREQUISITES: Grade 12 Credit (See information on Apprentice Program)
450 hours in each period

GENERAL INFORMATION:

Length of Apprenticeship Term:
Five periods of 1,800 hours

Program Contents:

BASIC PROGRAM

			Credit Units per Semester:	Periods per Week:
STEA	10	Steamfitting 1	9.5	21
MATH	10	Mathematics	1	2
ENG	10	English	0.5	2
DR	10	Drafting	1	2
WELD	10	Welding	0.5	1.5
WELD	11	Welding	0.5	1.5
			13	30

INTERMEDIATE PROGRAM

STEA	20	Steamfitting 11	9.5	21
MATH	20	Mathematics	1	2
ENG	20	English	0.5	2
DR	20	Drafting	1	2
WELD	20	Welding	0.5	1.5
WELD	21	Welding	0.5	1.5
			13	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM.	GBC CODE NO.:	OMRP CODE NO.:
STEAMFITTING Cont'd..	AR 78	

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods per Week:
ADVANCED PROGRAM				
STEA	30	Steamfitting 111	9.5	21
MATH	30	Mathematics	1	2
ENG	30	English	0.5	2
DR	33	Drafting	1	2
WELD	30	Welding)		
WELD	31	Welding)	1.0	3
			13	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM.	GBC CODE NO.:	OMRP CODE NO.:
STRUCTURAL STEEL DRAFTING	AR 79	

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	Basic 8 weeks Intermediate 7 " Advanced 7 "	SPONSORED	CERTIFICATE

PREREQUISITES:

GENERAL INFORMATION:

Length of Apprenticeship Term:
Three periods of 2,000 hours

Program Contents:			Credit Units per Semester:	Periods per Week:
BASIC PROGRAM				
STR	10	Structural Steel Drafting 1	8	18
MATH	12	Mathematics	1.5	3
ENG	10	English	1	2
DR	11	Descriptive Geometry	2.5	7
			13	30
INTERMEDIATE PROGRAM				
STR	20	Structural Steel Drafting 11	8	18
MATH	22	Mathematics	1.5	3
ENG	20	English	1	2
DR	21	Descriptive Geometry	2.5	7
			13	30
ADVANCED PROGRAM				
STR	30	Structural Steel Drafting 111	8	18
MATH	32	Mathematics	1.5	3
ENG	30	English	1	2
DR	42	Descriptive Geometry	2.5	7
			13	30

NAME OF PROGRAM:	GBC CODE NO.: AR 80
CEMENT MASON	OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	Basic 8 weeks Intermediate 7 Advanced 8 "	SPONSORED	CERTIFICATE

PREREQUISITES:

GENERAL INFORMATION:

Length of Apprenticeship Term:
Three periods of 2,000 hours

Program Contents:			Credit Units per Semester:	Periods per Week:
BASIC PROGRAM				
CEM/MAS	10	Cement Mason	6	17
MATH	10	Mathematics	1	2
ENG	10	English	2.5	5
DR	10	Drafting	1	2
PHYS	10	Applied Physics	1	2
CHEM	10	Chemistry	1	2
			12.5	30
INTERMEDIATE PROGRAM				
CEM/MAS	20	Cement Mason	6	17
MATH	20	Mathematics	1	2
ENG	20	English	2.5	5
DR	20	Drafting	1	2
PHYS	20	Applied Physics	1	2
CHEM	20	Chemistry	1	2
			12.5	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM:	GBC CODE NO.: AR 80
CEMENT MASON Cont'd..	OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods per Week:
ADVANCED PROGRAM				
CEM/MAS	30	Cement Mason	6	17
MATH	30	Mathematics	1	2
ENG	30	English	2.5	5
DR	30	Drafting	1	2
PHYS	30	Applied Physics	1	2
CHEM	30	Chemistry	1	2
			12.5	30

NAME OF PROGRAM: GLAZIER AND METAL MECHANIC

GBC COOE NO.: AR 81

OMRP COOE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	Basic 7 week Intermediate 7 Advanced 8 "		CERTIFICATE

PREREQUISITES:

GENERAL INFORMATION:

Length of Apprenticeship Term:
Four periods of 2,000 hours

Program Contents:			Credit Units per Semester:	Periods per Week:
BASIC PROGRAM				
GLAZ	10	Glazier and Metal Mechanic	8	20
MATH	10	Mathematics	1.5	3
ENG	10	English	1	2
DR	10	Drafting	1.5	3
PHYS	11	Applied Physics	1	2
			13	30
INTERMEDIATE PROGRAM				
GLAZ	20	Glazier and Metal Mechanic	8	20
MATH	20	Mathematics	1.5	3
ENG	20	English	1	2
DR	20	Drafting	1.5	3
PHYS	21	Applied Physics	1	2
			13	30
ADVANCED PROGRAM				
GLAZ	30	Glazier and Metal Mechanic	8	20
MATH	30	Mathematics	1.5	3
ENG	30	English	1	2
DR	30	Drafting	1.5	3
PHYS	31	Applied Physics	1	2
			13	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: DRY WALL TAPERS

GBC CODE NO.: AR 82

OMRP CODE NO.: 668

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	8 WEEKS	Based on $3.00 per week	CERTIFICATE

PREREQUISITES:

Grade 8 or equivalent

GENERAL INFORMATION:

The emphasis in this course is directed toward the basic hand skill, mechanical procedures and trade techniques necessary for the development of competent mechanics within the taping field. The course is structured to prepare graduates to become employable within the Drywall industry and to meet the ever-growing demands of this industry for skilled Drywall Tapers.

Program Contents:			Credit Units per Semester:	Periods per Week:
TA	130	Taping/Drywall	8.5	23
MATH	10	Mathematics	1.5	3
ENG	10	English	1	2
DR	131	Drafting and Blueprint Reading	1	2
			12	30

NAME OF PROGRAM: BLUEPRINT READING

GBC CODE NO.: AR 83

OMRP CODE NO.: 656

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	8 WEEKS	Based on $3.00 per week	CERTIFICATE

PREREQUISITES:

Grade 10

GENERAL INFORMATION:

This course is designed to assist the individual to understand the blueprints related to the various fields. Advancement in many companies depends on the ability to read blueprints. This course should enable a person to better his position in the area of his specialization.

Program Contents:			Credit Units per Semester:	Periods per Week:
DR	138	Blueprint Reading		25
ENG	16	English		2
MATH	16	Mathematics		3
				30

NAME OF PROGRAM: ACCOUNTING

GBC CODE NO.: B 1

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES:

Grade 12

GENERAL INFORMATION:

The courses included in this program provide a valuable preparation for students interested in Accounting occupations in business and industry. They also offer preparatory training for students interested in working towards membership in one of the Professional Accounting societies. Subject credits are granted by the Societies in specified courses where content and standards are considered equivalent.

Program Contents:			Credit Units per Semester:	Periods per Week:
FIRST YEAR		Semester 1		
		See Business Administration		
		Semester 11		
ENG	100	Language and Communication	5	5
MATH	114	Business Mathematics	5	5
BUS	100	Business Organization	5	5
ACC	101	Accounting	8	10
		Option	4	5
			27	30
SECOND YEAR		Semester 1		
ENG	200	Language and Communication	5	5
LAW	200	Business Law	5	5
ACC	200	General Accounting 1	4	5
ACC	201	Accounting Systems	4	5
ACC	202	Cost Accounting 1	4	5
		Option	4	5
			26	30

NAME OF PROGRAM: ACCOUNTING Cont'd..

GBC CODE NO.: BI

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods per Week:
SECOND YEAR		Semester 11		
ENG	200	Language and Communication	5	5
ACC	203	General Accounting 11	4	5
ACC	204	Cost Accounting 11	4	5
ACC	205	Auditing and Taxation	4	5
		Option	8	10
			25	30

NAME OF PROGRAM: ELECTRONIC DATA PROCESSING

GBC CODE NO.: B2

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES:

Grade 12

GENERAL INFORMATION:

The graduate of this program will be thoroughly trained in both the theoretical and practical applications of computers. The course will be of particular interest to the student who is interested in a career as a Computer Programmer, initially and wish to further their career as a Systems Analyst.

Applicants may be required to take an aptitude test before being admitted to the program.

Program Contents:			Credit Units per Semester:	Periods per Week:
FIRST YEAR		Semester 1		
		See Business Administration		
		Semester 11		
ENG	100	Language and Communication	5	5
MATH	114	Business Mathematics	5	5
BUS	100	Business Organization	5	5
EDP	101	Introduction to Computer Programming (Part A)	4	5
EDP	102	Introduction to Computer Programming (Part B)	4	5
		Option	4	5
			27	30

NAME OF PROGRAM: ELECTRONIC DATA PROCESSING Cont'd..

GBC CODE NO.: B2

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods per Week:
SECOND YEAR		Semester 1		
ENG	200	Language and Communication	5	5
MATH	215	Statistics	5	5
EDP	200	Programming for Business Applications	8	10
ACC	207	Accounting	4	5
		Option	4	5
			26	30
		Semester 11		
ENG	200	Language and Communications	5	5
EDP	201	Introduction to Systems	4	5
EDP	202	Programming Case Problems	8	10
		Option	8	10
			25	30

NAME OF PROGRAM: MARKETING

GBC CODE NO.: B3

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES: Grade 12

GENERAL INFORMATION:

The graduate of the two-year program is prepared for employment in any of the Marketing Functions such Advertising, Sales, Planning, Market Research, Wholesaling and Retailing.

The program provides through lecture, field work and case study a broad comprehension of the marketing process so the student may enter the above fields in any organization or enter his own business.

Program Contents:			Credit Units per Semester:	Periods per Week:
FIRST YEAR		Semester 11		
ENG	100	Language and Communications	5	5
MATH	114	Business Mathematics	5	5
BUS	100	Business Organization	5	5
MAR	102	Marketing and the Consumer	8	10
		Option	4	5
			27	30
SECOND YEAR		Semester 1		
ENG	200	Language and Communications	5	5
MATH	215	Statistics	5	5
MAR	200	Marketing and the Organization	8	10
MAR	201	Salesmanship	4	5
		Option	4	5
			26	30

NAME OF PROGRAM: MARKETING Cont'd..

GBC CODE NO.: B3

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods per Week:
SECOND YEAR		Semester 11		
ENG	200	Language and Communications	5	5
MAR	202	Marketing and Distribution Channels (Advertising - 7 hours) (Marketing - 8 hours)	12	15
		Option	8	10
			25	30

NAME OF PROGRAM: BUSINESS ADMINISTRATION-GENERAL

GBC CODE NO.: B4

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES: Grade 12

GENERAL INFORMATION:

Objective of this program is to provide students with a highly flexible business program to enable students to select option combinations that will prepare them for positions in Office Supervision, Personnel, Purchasing, Production Control, or provide for combinations of BI, B2, B3 which are particular to their interests, e.g. Marketing and Data Processing for Market Research.

Program Contents:			Credit Units per Semester:	Periods per Week:
FIRST YEAR		Semester 1		
		See Business Administration BI B2 B3 B4		
		Semester 11		
ENG	100	Language and Communications	5	5
MATH	114	Business Mathematics	5	5
BUS	100	Business Organization	5	5
		Three Options or Majors of BI or B2 or B3 at 101 or 102 level	12	15
			27	30

NAME OF PROGRAM: BUSINESS ADMINISTRATION-GENERAL Cont'd..

GBC CODE NO.: B4

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods per Week:
SECOND YEAR		Semester 1		
ENG	200	Language and Communications	5	5
MATH	215	Statistics	5	5
PSY	100	Psychology	4	5
		Three Options or Majors of BI or B2 or B3 at level 101 112 200 201	12	15
			26	30
		Semester 11		
ENG	200	Language and Communications	5	5
		Five Options or Majors of BI B2 B3 levels at 101 102 200 201 202	20	25
			25	30

NAME OF PROGRAM: SECRETARIAL SCIENCE (GENERAL)

GBC CODE NO.: B 5

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES:

Grade 12 or equivalent - no previous knowledge of shorthand or typewriting is required. Holders of a Secondary School Graduation Diploma who can provide a statement to indicate that they can type at the rate of 45 wpm and can transcribe Pitman or Machine shorthand at 80 wpm may enter the third semester of this program. Direct entry applicants must be prepared to take a test to substantiate the necessary skill speeds, prior to registration.

GENERAL INFORMATION:

The graduate of the two-year general secretarial program will have developed the skills in shorthand, typewriting and as well covered the related secretarial duty areas in sufficient depth to meet the decision-making ability of a competent secretary in business.

Credit will be given to students with typing and shorthand skills thus enabling them to shorten or enrich (through options) their programs.

Program Contents:			Credit Units per Semester:	Periods per Week:
FIRST YEAR		Semester I		
ENG	100	Language and Communication		5
MATH	113	Business Mathematics		3
OP	100	Typewriting		7
SH	100	Shorthand (Pitman or Machine)		10
or				
SH	101			
		Option		5
				30

NAME OF PROGRAM: SECRETARIAL SCIENCE (GENERAL) cont'd

GBC CODE NO.: B 5

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

			Credit Units per Semester:	Periods per Week:
FIRST YEAR		Semester II		
ENG	100	Language and Communication		5
OP	101	Typewriting and Office Practice		10
SH	100	Shorthand (Pitman or Machine)		10
or				
SH	101			
		Option		5
				30
SECOND YEAR		Semester III		
		English Elective		5
		Business Organization		3
		Secretarial Accounting		2
		Shorthand		10
		Secretarial Procedures		10
				30
SECOND YEAR		Semester IV		
		English Elective		5
		Business Law		3
		Applied Stenography		10
		Secretarial Practice		10
		Dictaphone		2
				30

NAME OF PROGRAM: SECRETARIAL SCIENCE (LEGAL)

GBC CODE NO.: B 6

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	2 YEAR	$160.00 per year	DIPLOMA

PREREQUISITES:

Grade 12 or equivalent - no previous knowledge of shorthand or typewriting is required. Holders of a Secondary School Graduation Diploma who can provide a statement to indicate that they can type at the rate of 45 wpm and can transcribe Pitman or Machine shorthand at 80 wpm may enter the third semester of this program. Direct entry applicants must be prepared to take a test to substantiate the necessary skill speeds, prior to registration.

GENERAL INFORMATION:

This program provides the skills and knowledge required for successful entry into legal secretarial positions.

Program Contents:

			Credit Units per Semester:	Periods per Week:
FIRST YEAR		Semester I		
ENG	100	Language and Communication		5
MATH	113	Business Mathematics		3
OP	100	Typewriting		7
SH	100	Shorthand (Pitman or Machine)		10
or				
SH	101			
		Option		5
				30
FIRST YEAR		Semester II		
ENG	100	Language and Communication		5
OP	101	Typewriting and Office Practice		10
SH	100	Shorthand (Pitman or Machine)		10
or				
SH	101			
		Option		5
				30

NAME OF PROGRAM: SECRETARIAL SCIENCE (LEGAL) cont'd

GBC CODE NO.: B 6

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

			Credit Units per Semester:	Periods per Week:
SECOND YEAR		Semester III		
		English Elective		5
LAW	105	Business Law		5
OP	102	Legal Office Practice		5
SH	102	Legal Shorthand		10
		Option		5
				30
SECOND YEAR		Semester IV		
		English Elective		5
LAW	105	Business Law		5
OP	102	Legal Office Practice		5
SH	102	Legal Shorthand		7
		Legal Accounting		3
		Option		5
				30

NAME OF PROGRAM: SECRETARIAL SCIENCE (MEDICAL)

GBC CODE NO.: B 7

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES:

Grade 12 or equivalent - no previous knowledge of shorthand or typewriting is required. Holders of a Secondary School Graduation Diploma who can provide a statement to indicate that they can type at the rate of 45 wpm and can transcribe Pitman or Machine shorthand at 80 wpm may enter the third semester of the Medical Shorthand program. Entry is gained to the Medical Dicta Program only in Semester III by holding a Grade 12 certificate and the ability to type at a minimum of 45 wpm. Direct entry applicants must be prepared to take a test to substantiate the necessary skill, prior to registration.

GENERAL INFORMATION:

This program is designed to train medical stenographers and medical dicta-typists for positions in their respective fields.

Program Contents:

			Credit Units per Semester:	Periods per Week:
FIRST YEAR		Semester I (Medical Shorthand Program)		
ENG	100	Language and Communication		5
MATH	113	Business Mathematics		3
OP	100	Typewriting		7
SH	100	Shorthand (Pitman or Machine)		10
or				
SH	101			
		Option		5
				30
FIRST YEAR		Semester II		
ENG	100	Language and Communication		5
OP	101	Typewriting and Office Practice		10
SH	100	Shorthand (Pitman or Machine)		10
or				
SH	101			
		Option		5
				30

NAME OF PROGRAM: SECRETARIAL SCIENCE (MEDICAL) cont'd

GBC CODE NO.: B 7

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

			Credit Units per Semester:	Periods per Week:
SECOND YEAR		Semester III (Medical Shorthand Program)		
		English Elective		5
OP	103	Medical Office Practice		5
SH	103	Medical Shorthand		10
ANAT	100	Anatomy and Physiology		5
		Option		5
				30
SECOND YEAR		Semester IV		
		English Elective		5
OP	103	Medical Office Practice		5
SH	103	Medical Shorthand		7
ANAT	100	Anatomy and Physiology		5
		Medical Accounting		3
		Option		5
				30

OR

			Credit Units per Semester:	Periods per Week:
SECOND YEAR		Semester III (Medical Dictaphone Program)		
		English Elective		5
OP	103	Medical Office Practice		5
OP	104	Medical Dictaphone		8
ANAT	100	Anatomy and Physiology		5
ANAT	101	Medical Terminology		2
		Option		5
				30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: SECRETARIAL SCIENCE (MEDICAL) cont'd

GBC CODE NO.: B 7

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

			Credit Units per Semester:	Periods per Week:
SECOND YEAR		Semester IV (Medical Dictaphone Program)		
		English Elective		5
OP	103	Medical Office Practice		5
OP	104	Medical Dictaphone		5
ANAT	100	Anatomy and Physiology		5
ANAT	101	Medical Terminology		2
		Medical Accounting		3
		Option		5
				30

NAME OF PROGRAM: SALES

GBC CODE NO.: B 42

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	I YEAR	$160.00	DIPLOMA

PREREQUISITES: Grade 12

GENERAL INFORMATION:

This program is for students who wish to make a career of selling. The graduate will be prepared for employment in all areas of commerce directly related to sales. Special studies include a course in Salesmanship designed to develop the student's sales skills with strong emphasis on field conditions. Complementary academic subjects are included to provide an understanding of other related business areas which will increase his effectiveness in sales and prepare the student for further advancement. The program can be timetabled as a regular day program consisting of two consecutive semesters or arranged so that the student attends one semester at the College, works for a semester and returns to the College for a final semester.

Program Contents:			Credit Units per Semester:	Periods per Week:
SEMESTER I				
ENG	110	Language and Communications	5	5
ENG	213	Oral Communications	2	2
MATH	114	Business Mathematics	5	5
PSY	201	Business Psychology	5	5
MAR	100	Marketing	5	5
MAR	101	Salesmanship	8	8
			30	30
SEMESTER II				
ENG	212	Language and Communications	5	5
ENG	215	Advanced Communication Skills	2	2
MATH	115	Mathematics of Finance	5	5
EC	210	Economics	5	5
MAR	104	Advertising and Sales Promotion	5	5
MAR	101	Salesmanship	8	8
			30	30

NAME OF PROGRAM: COMMERCIAL STENOGRAPHIC

GBC CODE NO.: B 45

OMRP CODE NO.: 419

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS KEELE CAMPUS	40 WEEKS	$120.00	CERTIFICATE

PREREQUISITES: Grade 10 or equivalent

GENERAL INFORMATION:

This program offers students an opportunity to acquire skills in Shorthand, Typewriting and Office Practice, and a knowledge of business English which will equip them to fill stenographic and secretarial positions in the world of business, Government and Finance. This objective is obtained by the students obtaining 50-55 w.p.m. typing, 80-120 w.p.m. shorthand and Grand XII equivalent in English and Office Practice.

Program Contents:			Credit Units per Semester:	Periods per Week:
SEMESTER I				
TYP	149	Typewriting	6	10
ENG	149	Language and Communication	5	5
SH	149	Shorthand	8	10
OP	149	Office Practice	3	5
			22	30
SEMESTER II				
OP	150	Office Practice	6	5
SH	149	Shorthand	16	20
ENG	149	Language and Communication	5	5
			27	30

NAME OF PROGRAM: BUSINESS MACHINES AND BOOKKEEPING

GBC CODE NO.: B 51

OMRP CODE NO.: 413

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KEELE CAMPUS TERAULAY CAMPUS	40 WEEKS	$120.00	CERTIFICATE

PREREQUISITES:

Grade 10 or equivalent

GENERAL INFORMATION:

This course is designed to enable graduates to adequately fill the position of a general office worker in industry with a minimum of on-the-job training. The main accent is placed on bookkeeping. Practical work is given on a wide range of the newest and most modern equipment now available for office use, such as electronic bookkeeping machines, calculators, keypunch machines as well as data processing equipment. However, office methods and procedures are also thoroughly taught.

Program Contents:			Credit Units per Semester:	Periods per Week:
SEMESTER I				
BOK	148	Bookkeeping and Business Machines	12	18
MATH	148	Mathematics	4	4
LAW	148	Law and Economics	3	4
ENG	149	Business English	4	4
			23	30
SEMESTER II Part I				
TYP	148	Typewriting (Level 1)	9	13
BM	148	Business Machines	8	13
ENG	149	Business English	4	4
			21	30
SEMESTER II Part II				
TYP	148	Typewriting (Level 2)	9	13
EDP	148	Data Processing	9	13
OP	148	Office Practice and Duplicating	3	4
			21	30

NAME OF PROGRAM: COMMERCIAL CLERICAL

GBC CODE NO.: B 52

OMRP CODE NO.: 417

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
COLLEGE STREET CAMPUS TERAULAY CAMPUS	40 WEEKS 2-20 week Semester	$120.00	CERTIFICATE

PREREQUISITES:

Grade 8 or equivalent

GENERAL INFORMATION:

This course exists to train the student in the performance of a variety of general office functions. The graduate is trained to assume a position as a clerk typist or a general clerical worker. The inclusion of Bookkeeping and Business Machines will also develop the necessary skills for work in a variety of Bookkeeping jobs.

Program Contents:			Credit Units per Semester:	Periods per Week:
SEMESTER I				
TYP	152	Typewriting	6	10
MATH	152	Mathematics	5	5
ENG	146	Language and Communication	5	5
BOK	152	Bookkeeping	4	5
BM	152	Business Machines	3	5
			23	30
SEMESTER II				
TYP	152	Typewriting	3	5
OP	152	Office Practice	3	5
MATH	152	Mathematics	5	5
ENG	146	Language and Communication	4	5
BOK	152	Bookkeeping	4	5
BM	152	Business Machines	5	5
			24	30

NAME OF PROGRAM: CLERK TYPIST (SPECIAL)

GBC CODE NO.: B 53

OMRP CODE NO.: 415

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	24 WEEKS	$72.00	CERTIFICATE

PREREQUISITES:

Grade 10 or equivalent

GENERAL INFORMATION:

The purpose of this course is to train the student, by a relatively short and intensive course to a skill level which will enable him to seek employment as a clerk typist. Preference will be given to women over 30 years of age.

Program Contents:			Credit Units per Semester:	Periods per Week:
TYP	152	Typewriting	8	14
BOK	153	Bookkeeping	6	8
ENG	146	Language and Communication	4	4
MATH	152	Mathematics	4	4
			22	30

NAME OF PROGRAM: COMMERCIAL ACCOUNTANCY

GBC CODE NO.: B 54

OMRP CODE NO.: 416

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KEELE CAMPUS TERAULAY CAMPUS	40 WEEKS	$120.00	CERTIFICATE

PREREQUISITES:

Grade 10 or equivalent

GENERAL INFORMATION:

This program will give the student a thorough grounding in the principles and practices of modern day Accounting. The graduate will be equipped to assume employment in any of a number of Accounting-oriented positions. This course can also lead to opportunities for further training in the field through the various Accounting Associations.

Program Contents:			Credit Units per Semester:	Periods per Week:
MATH	148	Mathematics	8	8
ENG	148	Language and Communication	7	7
ACC	154	Accounting	12	15
			27	30

NAME OF PROGRAM: INVENTORY CONTROL-WAREHOUSEMAN

GBC CODE NO.: B 55

OMRP CODE NO.: 426

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	24 WEEKS	$72.00	CERTIFICATE

PREREQUISITES:

Grade 10

GENERAL INFORMATION:

This course is designed to prepare students for entry into the following fields of employment.

Setting up inventory control kardex systems, ordering of raw materials and finished assemblies, balancing inventories, forecasting sales and production, shipping and receiving, and warehousing.

Program Contents:			Credit Units per Semester:	Periods per Week:
INV	155	Inventory Control and Warehousing		22
TYP	155	Typewriting		3
MATH	156	Mathematics		5
				30

NAME OF PROGRAM: COMMERCIAL REFRESHER

GBC CODE NO.: B 56

OMRP CODE NO.: 442

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS KEELE CAMPUS	16 WEEKS	$48.00	CERTIFICATE

PREREQUISITES:

Previous commercial training, on-th-job experience, and previous typing skill.

GENERAL INFORMATION:

This course is designed for the student with a good background in commercial training and on-the-job experience, but who has not used this training for some years. Its purpose is to redevelop skills and knowledge to an employable level.

Program Contents:			Credit Units per Semester:	Periods per Week:
MATH	156	Mathematics		4
ENG	156	English		4
TYP	156	Typewriting and Office Practice		14
BOK	156	Bookkeeping		8
				30

NAME OF PROGRAM.	GBC CODE NO.:	OMRP CODE NO.:
TYPIST - GENERAL OFFICE	B 57	450

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	20 WEEKS	$60.00	CERTIFICATE

PREREQUISITES:

Previous clerical experience and a fluency in English, both oral and written.

GENERAL INFORMATION:

The aim of this concentrated course is to train selected students for employment as clerk typists by further developing their clerical skills, and developing a typing skill of 45 to 50 w.p.m.

Program Contents:			Credit Units per Semester:	Periods per Week:
SESSION I				
TYP	157	Typewriting and Office Practice	8	15
MATH	156	Mathematics	5	5
ENG	156	Language and Communications	5	5
BM	157	Business Machines	3	5
			21	30
SESSION II				
TYP	157	Typewriting and Office Practice	12	20
MATH	156	Mathematics	5	5
ENG	156	Language and Communications	5	5
			22	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM.	GBC CODE NO.:	OMRP CODE NO.:
ELECTRONIC DATA PROCESSING I (Keypunch and Verifier)	B 70	618

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	4 WEEKS	$12.00	CERTIFICATE

PREREQUISITES:

Grade 10 or equivalent, aptitude test, typing speed of 35 w.p.m.

GENERAL INFORMATION:

The purpose of this program is to train keypunch operators to a level of proficiency that they can graduate directly into positions in the field. Objective is 9,000 strokes per hour.

Program Contents:			Credit Units per Semester:	Periods per Week:
EDP	170	Keypunch		30

NAME OF PROGRAM: ELECTRONIC DATA PROCESSING II (Basic Unit Records)

GBC CODE NO.: B 71

OMRP CODE NO.: 619

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULLAY CAMPUS	8 WEEKS	$24.00	CERTIFICATE

PREREQUISITES:

Grade 11 or equivalent, plus bookkeeping and aptitude test.

GENERAL INFORMATION:

The purpose of this course is to teach the students the general principles of Unit Record equipment with practice in wiring panels and problem-solving. The graduate should be able to enter business with the familiarity and training to work effectively in Unit Records installations. This program is normally combined with B 72 but may be taken separately.

Program Contents:		Credit Units per Semester:	Periods per Week:
EDP 171	Basic Unit Records	20	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: ELECTRONIC DATA PROCESSING III (Advanced Unit Records)

GBC CODE NO.: B 72

OMRP CODE NO.: 620

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	8 WEEKS	$24.00	CERTIFICATE

PREREQUISITES:

Successful completion of EDP II

GENERAL INFORMATION:

The purpose of this course is to equip the student with a sure knowledge of the operation of Unit Record equipment and sufficient practice that he may be able to function successfully as an operator immediately upon entering an installation. It is also designed to introduce the basics of computer operation, flowcharting and programming.

Program Contents:		Credit Units per Semester:	Periods per Week:
EDP 172	Advanced Unit Records		30

NAME OF PROGRAM: BUSINESS MACHINES

GBC CODE NO.: B73

OMRP CODE NO.: 412

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	12 WEEKS	$36.00	CERTIFICATE

PREREQUISITES:

Grade 10 or equivalent

GENERAL INFORMATION:

To introduce the student to today's office machinery and to develop the qualities which are necessary to become a competent operator of the business equipment normally found in today's organizations. Manipulative skill is developed as well as business machine use so that a student may quickly adapt to any new equipment he/she may encounter.

Program Contents:			Credit Units per Semester:	Periods per Week:
BM	173	Business Machines	20	30

NAME OF PROGRAM: TYPING

GBC CODE NO.: B 74

OMRP CODE NO.: 443

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	12 WEEKS	$36.00	CERTIFICATE

PREREQUISITES:

Previous work experience in typing. Present typing skill, 15-20 w.p.m. minimum.

GENERAL INFORMATION:

To enable former office workers or previously trained typists to regain earlier skills to prepare for commercial employment.

Program Contents:			Credit Units per Semester:	Periods per Week:
TYP	158	Typing		15
ENG	156	Language and Communications		6
OP	158	Office Practice		3
BM	158	Business Machines		6
				30

NAME OF PROGRAM: DESIGN TECHNICIAN

GBC CODE NO.: EL - 1

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	2 Years	$160.00 per year	DIPLOMA

PREREQUISITES: GRADE 12

GENERAL INFORMATION:

This program provides the drafting skills combined with an adequate theoretical base, practical knowledge, and workshop skills to provide a background for the Electrical Design Technician. Electrical Design Technicians are employed by Local, Provincial, and Federal Government Departments; Municipal, and Provincial Hydro-Electric Systems; Manufacturing Companies, Consulting Engineering Firms, and Construction Companies.

Program Contents:			Credit Units per Semester	Periods per Week:
FIRST YEAR				
EL	101	Electrical Circuits	3	3
EL	102	Electrical Machines	4	4
EL	103	Electrical Lab	4	8
EL	104	Electrical Fundamentals	2	2
EL	107	Electronic Fundamentals	2	2
MATH	100	Mathematics	4	4
ENG	100	Language and Communications	2	2
MECH	102	Mechanics	3	3
DR	122	Electrical Drafting	1.5	3
			25.5	31
SECOND YEAR				
DR	112	Architectural and Mechanical Blue Print Reading	2	3
PHYS	100	Applied Physics	2	3
EL	120	Materials and Methods	2	2
EL	227	Electrical Design Applications	6	10
EC	102	Engineering Law and Adminstration	2	2
EL	207	Electrical Lab	4	4
MATH	200	Mathematics	4	4
ENG	200	Language and Communications	2	2
EL	208	Computer Principles	1.5	1.5
			25.5	31.5

NAME OF PROGRAM: ELECTRICAL TECHNICIAN

GBC CODE NO.: EL - 2

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KENSINGTON CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES: GRADE 12

GENERAL INFORMATION:

This program is designed to provide the theory, skills and knowledge of industrial practices required of an electrical technician. Facilities include modern labs and equipment which reinforce electrical theory with practical experience. Opportunties for employment are found in electrical generation and distribution, communications, manufacturing, and building fields. Graduates are employed as draftsmen, serviceman, estimators, operators, and inspectors.

Program Contents:			Credit Units per Semester:	Periods per Week:
FIRST YEAR				
EL	101	Electrical Circuits	3	3
EL	102	Electrical Machines	4	4
EL	103	Electrical Lab	4	8
EL	104	Electrical Fundamentals	2	2
EL	107	Electronic Fundamentals	2	2
MATH	100	Mathematics	4	4
ENG	100	Language and Communications	2	2
MECH	102	Mechanics	3	3
DR	122	Electrical Drafting	1.5	3
			25.5	31
SECOND YEAR				
1.		Area of Specialization - Electrical Apparatus		
EL	200	Electrical Apparatus	3.5	3.5
EL	205	Protection of Electrical Apparatus	2	2
EL	206	Industrial Electronic Principles	2	2
EL	207	Electrical Lab	4	8
EL	208	Computer Principles	1.5	1.5
EL	209	Pneumatic and Hydraulic Control Systems	1.5	1.5
MATH	200	Mathematics	4	4
ENG	200	Language and Communications	2	2
PHYS	100	Applied Physics	2	3
EC	110	Economics	2	2
DR	203	Electrical Drafting	1	2
			25.5	31.5

NAME OF PROGRAM: ELECTRICAL TECHNICIAN CONT'D

GBC CODE NO.: EL - 2

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester	Periods per Week:
SECOND YEAR				
2.	Area of Specialization - Industrial Electronics Systems			
EL	205	Protection of Electrical Apparatus	2	2
EL	206	Industrial Electronic Principles	2	2
EL	207	Electrical Lab	4	8
EL	208	Computer Principles	1.5	1.5
EL	209	Pneumatic and Hydraulic Control Systems	1.5	1.5
EL	211	Industrial Electronic Systems	3.5	3.5
MATH	200	Mathematics	4	4
ENG	200	Language and Communications	2	2
PHYS	100	Applied Physics	2	3
EC	110	Economics	2	2
DR	203	Electrical Drafting	1	2
			25.5	31.5

NAME OF PROGRAM: ELECTRONIC TECHNICIAN

GBC CODE NO.: EL - 3

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES: Grade 12

GENERAL INFORMATION:

This course is designed to provide Engineering Technicians to work in the maintenance, installation, production, design or research phases of the electronics industry. In order to better qualify the student of this course for immediate productive work in industry upon graduation, the course has been designed about a common first year and a second year which allows the student to specialize in an area of greatest interest to him. The areas of specialization are: Communications, Computers, and ETV/TV Broadcast. Graduates of this course are now employed in research and engineering departments of government and industry, in utility companies, in radio and television broadcasting, in closed circuit television studios, in the oil industry and in computer and communications systems installation.

Program Contents:			Credit Units per Semester:	Periods per Week:
FIRST YEAR				
EL	100	Electrical Fundamentals	2	3
ELTC	100	Electronic Fundamentals	2	3
ELTC	101	Amplifiers	2	3
ELTC	102	AM/FM Receiver Circuits	2	3
ELTC	103	Semi-Conductor Circuits	3	3
ELTC	105	TV Principals	2	3
DR	116	Drafting	1.5	2
MATH	100	Mathematics	4	4
ENG	100	Language and Communication	2	2
MECH	102	Mechanics	2	2
PHYS	100	Applied Physics	3	3
			25.5	31

NOTE: For those taking the ETV and TV Broadcast option, there will be a 40-hour introductory TV Broadcast course at the end of the first year. This non-credit course is intended as a preparatory course for summer employment.

ELTC 106 Introductory TV Broadcast

NAME OF PROGRAM: ELECTRONIC TECHNICIAN CONT'D

GBC CODE NO.: EL - 3

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

SECOND YEAR

1. Area of Specialization-Communications Engineering Technician

			Credit Units per Semester:	Periods per Week:
ELTC	200	Transistors	1.5	1.5
ELTC	201	Pulse Circuits	1.5	1.5
ELTC	202	Computer Principles	1.5	1.5
ELTC	203	Communications Principles	1.5	1.5
ELTC	212	Communications Systems	3	3
ELTC	213	Laboratory	5	10
MATH	200	Mathematics	4	4
ENG	200	Language and Communications	2	2
PHYS	200	Modern Physics	3	3
EC	100	Economics	2	2
			25	30

2. Area of Specialization-Computer Engineering Technician

ELTC	200	Transistors	1.5	1.5
ELTC	201	Pulse Circuits	1.5	1.5
ELTC	202	Computer Principles	1.5	1.5
ELTC	203	Communications Principles	1.5	1.5
ELTC	211	Computer Systems	3	3
ELTC	213	Laboratory	5	10
MATH	200	Mathematics	4	4
ENG	200	Language and Communications	2	2
PHYS	200	Modern Physics	3	3
EC	100	Economics	2	2
			25	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: ELECTRONIC TECHNICIAN CONT'D

GBC CODE NO.: EL - 3

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

3. Area of Specialization-ETV and TV Broadcast Engineering Technician

			Credit Units per Semester:	Periods per Week:
ELTC	200	Transistors	1.5	1.5
ELTC	201	Pulse Circuits	1.5	1.5
ELTC	213	Laboratory	5	10
ELTC	215	Audio Systems Theory and Equipment	1	1
ELTC	216	Video Systems and Transmitting Systems Theory and Equipment	2	2
ELTC	217	TV Camera, Tape Recorders and Telecine Theory and Equipment	2	2
ELTC	218	Test Equipment Theory and Practice	1	1
MATH	200	Mathematics	4	4
ENG	200	Language and Communications	2	2
PHYS	200	Modern Physics	3	3
EC	100	Economics	2	2
			25	30

NAME OF PROGRAM: ELECTRONICS

GBC CODE NO.: EL - 41

OMRP CODE NO.: 674

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	1 YEAR (48 weeks)	$160.00 per year	CERTIFICATE

PREREQUISITES: GRADE 10

GENERAL INFORMATION:

The theory in this course is developed so that the principles involved in various circuits, modules and systems can be applied to all types of electronic equipment both domestic and commercial. To complement the theory, practical sessions in the laboratory are given on domestic equipment such as the radio, television, hi-fi and the record changer. With this background the graduate of this course is equipped to work effectively as a service technician in all electronic manufacturing companies, retail radio and television stores and in the small radio and television repair shop.

Program Contents:			Credit Units per Semester:	Periods per Week:
SEMESTER 1				
ELTC	130	Electrical and Electronic Fundamentals	4	4
ELTC	131	Semi-Conductors Devices and Circuits	4	4
ELTC	132	Radio-Hi Fi, and Sound Systems	3	3
ELTC	133	Fundamentals Laboratory	5	10
DR	133	Electronic Drafting	1.5	2
MATH	131	Mathematics	3	3
PHYS	131	Physics	2	2
ENG	130	Language and Communications	2	2
			24.5	30
SEMESTER II				
ELTC	134	Pulse and Digital Circuits	2	2
ELTC	135	Television Receiver Circuits and Systems	4	4
ELTC	136	Color Television and F.M. Multiplex	4	4
ELTC	137	Radio and Television Laboratory	5.5	11
DR	133	Electronics Drafting	1.5	2
MATH	131	Mathematics	3	3
PHYS	131	Physics	2	2
ENG	130	Language and Communication	2	2
			24	30

NAME OF PROGRAM: RADIO AND TELEVISION (APPRENTICE)

GBC CODE NO.: EL - 42

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	1st Year- 18 weeks 2 nd " - 18 "	SPONSORED	CERTIFICATE

PREREQUISITES:

GENERAL INFORMATION:

PROGRAM Contents:			Credit Units per Semester:	Periods per Week:
FIRST YEAR				
ELTC	130	Electrical Fundamentals	4	4
ELTC	131	Electronic Fundamentals	4	4
ELTC	132	Radio and Sound Servicing	3	3
ELTC	133	Fundamentals Laboratory	5	10
DR	133	Drafting	1.5	2
MATH	131	Mathematics	3	3
PHYS	131	Physics	2	2
ENG	10	Language and Communication	2	2
			24.5	30
SECOND YEAR				
ELTC	134	Pulse Circuits	2	2
ELTC	135	Television Circuits	4	4
ELTC	136	Color Television and FM Multiplex	4	4
ELTC	137	Radio and Television Laboratory	5.5	11
DR	133	Drafting	1.5	2
MATH	131	Mathematics	3	3
PHYS	131	Physics	2	2
ENG	20	Language and Communication	2	2
			24	30

NAME OF PROGRAM: ELECTRICAL DRAFTING

GBC CODE NO.: EL -43

OMRP CODE NO.: 705

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	40 Weeks	$120.00	CERTIFICATE

PREREQUISITES: GRADE 10

GENERAL INFORMATION:

This course is designed to produce a draftsman with a good understanding of the basic concepts and applications of Electrical Theory. The main emphasis is placed upon the development of drafting skills. The drafting ability combined with a working knowledge of Electrical Theory will make a graduate from this course a versatile draftsman in any phase of electrical drafting. Graduates will be suitable for employment in consulting engineering offices, public utilities, electrical manufacturing and municipal offices.

Program Contents:			Credit Units per Semester	Periods per Week:
SEMESTER I				
EL	134	Electrical Drafting	9	14
DR	112	Architectural and Mechanical Blue Print Reading	1	2
EL	130	Electrical Fundamentals	6	6
EL	136	Electrical Lab	1	2
MATH	131	Mathematics	5	5
ENG	130	Language and Communications	2	2
			26	31
SEMESTER II				
EL	134	Electrical Drafting	9	14
EL	130	Electrical Fundamentals	2	2
EL	135	Electrical Equipment and Control	4	4
EL	136	Electrical Lab	1	2
EL	137	Industrial Electronic Controls Fundamentals	1	2
EL	138	Materials and Regulations	1	2
MATH	131	Mathematics	5	5
ENG	130	Language and Communications	2	2
			25	33

NAME OF PROGRAM: ELECTRICAL CONSTRUCTION

GBC CODE NO.: EL - 70

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KENSINGTON CAMPUS	Basic: 7 wks. Intermediate: 7 " Advanced: 8 "	$66.00	CERTIFICATE

PREREQUISITES:

GENERAL INFORMATION:

Industrial Electronics Program: 7 weeks, conducted during fifth apprenticeship period. All apprentices graduating from the advanced course have the opportunity of taking this course on a voluntary basis.

Program Contents:			Credit Units per Semester:	Periods per Week:
BASIC PROGRAM				
EL	10	Electrical Construction I	7	14
EL	11	Electrical Practice	2	8
MATH	10	Mathematics	2	3
ENG	10	English	1	2
DR	12	Drafting and Blueprint Reading	1	3
			13	30
INTERMEDIATE PROGRAM				
EL	20	Electrical Construction II	7	14
EL	21	Electrical Practice	2	8
MATH	20	Mathematics	2	3
ENG	20	English	1	2
DR	22	Drafting and Blueprint Reading	1	3
			13	30
ADVANCED PROGRAM				
EL	30	Electrical Construction III	7	14
EL	31	Electrical Practice	2	8
MATH	30	Mathematics	2	3
ENG	30	English	1	2
DR	32	Blueprint Reading	1	3
			13	30

NAME OF PROGRAM: ELECTRICAL CONSTRUCTION CONT'D

GBC CODE NO.: EL - 70

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

INDUSTRIAL ELECTRONIC PROGRAM (ELective)

			Credit Units per Semester:	Periods per Week:
EL	40	Industrial Electronic Controls	4	7
EL	41	Electrical Practice	7	19
WELD	11	Welding	2	4
			13	30

NAME OF PROGRAM: COLOUR TELEVISION

GBC CODE NO.: EL - 71

OMRP CODE NO.: 685

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	10 Weeks	$30.00	SPECIAL CERTIFICATE

PREREQUISITES: Good background training and experience in Electronics with some exposure to Black and White T.V.

GENERAL INFORMATION:

Graduates from this program have prepared themselves for employment in the T.V. repair field, either in the small shop, as service technicians or in the factory as troubleshooters.

Program Contents:

			Credit Units per Semester	Periods per Week:
ELTC	131	Semi conductor devices and circuits (including pertinent parts from ELTC 134)	5	8
ELTC	136	Colour Television and F.M. Multiplex (Including pertinent parts from ELTC 132)	5	12
ELTC	137	Radio and Television Laboratory	3	10
			13	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM:			GBC CODE NO.: EN 1
INSTRUMENTATION TECHNICIAN			OMRP CODE NO.:
LOCATION: KENSINGTON	LENGTH: 2 YEARS 2100 HRS.	FEES: $160.00	CERTIFICATION: DIPLOMA

PREREQUISITES: Grade 12 from 4 or 5 year program. Math and Science options would be an asset. Upon completion of Module I, successful candidates may make application to enter the INSTRUMENT TECHNOLOGIST PROGRAM.

GENERAL INFORMATION:

Employment Opportunities: Opportunities are many and varied. Typical offerings would be: pulp and paper, petrochemical, steel, and manufacturing plants.

Program Contents:			Credit Units per Semester:	Periods per Week:
MODULE ONE				
EL	106	Electrical Fundamentals I	5	6
EL	107	Electrical Fundamentals II	3	4
ELTC	107	Electrical Fundamentals	3	4
INST	108	Instrumentation Fundamentals	4.5	7
DR	100	Technical Drawing	1.5	2
MATH	100	Circuit Analysis	8	8
			25	31
MODULE TWO				
INST	100	Measuring Principles	5.5	8
INST	101	Electronic Instrumentation	6	9
INST	103	Piping and Instrument Lab Techniques	2	3
ENG	100	Language and Communication	3	3
ECO	100	Economics	3	3
MECH	102	Mechanics	3	3
			22.5	29

NAME OF PROGRAM: INSTRUMENTATION TECHNICIAN CONT'D

GBC CODE NO.: EN 1

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

			Credit Units per Semester:	Periods per Week:
MODULE TWO a				
INST	104	Telemetering	6	9
INST	206	Applied Electronics	7	10
ENG	100	Language and Communication	3	3
ECO	100	Economics	3	3
MECH	102	Mechanics	3	3
INST	208	Research Seminar	1	2
			23	30
MODULE THREE				
INST	200	Automatic Control Principles I	7	10
INST	201	Final Control Elements	4.5	7
MATH	200	Mathematics	4	4
PHYS	100	Applied Physics	4	4
ENG	200	Language and Communication	2	2
CHEM	100	Applied Chemistry	2	3
			23.5	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: INSTRUMENTATION TECHNICIAN CONT'D

GBC CODE NO.: EN 1

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

			Credit Units per Semester:	Periods per Week:
MODULE FOUR				
INST	202	Analytical Instrumentation	5	7
INST	203	Computer Control Principles I	6	10
MATH	200	Mathematics	4	4
PHYS	100	Applied Physics	4	4
ENG	200	Language and Communication	2	2
CHEM	100	Applied Chemistry	2	3
			23	30
MODULE FOUR a				
INST	105	Applied Nuclear Theory	5	6
INST	207	Applied Electronics	5	8
MATH	200	Mathematics	4	4
ENG	200	Language and Communication	2	2
CHEM	100	Chemistry	3	3
PHYS	100	Applied Physics	4	4
INST	204	Industrial Preparation	1.5	3
			24.5	30

NAME OF PROGRAM: PLASTICS THEORY AND TECHNIQUES TECHNICIAN

GBC CODE NO.: EN 2

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
Casa Loma Campus	2 years	$160.00 per year	DIPLOMA

PREREQUISITES: Grade 12 with Physics, Chemistry, and Drafting

GENERAL INFORMATION:

In Canada the growth rate of the plastics industry is more than double the industrial average. Over 1,100 companies are engaged in plastics; more than 600 of these firms are in Ontario. This rapid expansion has created a strong demand for technicians at several levels.

Program Contents:

			Credit Units per Semester:	Periods per Week:
FIRST YEAR:				
PL	100	Thermoplastic Materials	3	3
PL	103	Thermoset Materials	2	2
PL	110	Thermoplastic Processes	3	4
PL	113	Thermoset Processes	2	3
PL	120	Thermoplastic Design	3	3
PL	123	Thermoset Design	2	2
CHEM	110	Chemistry	3	4
PHYS	110	Physics	2	2
ENG	100	Language and Communication	2	2
MATH	100	Mathematics	4	4
EC	112	Business Organization	1	1
			27	30
SECOND YEAR:				
PL	200	Thermoplastic Materials	3	3
PL	203	Thermoset Materials	2	2
PL	210	Thermoplastic Processes	3	4
PL	211	Thermoset Processes	2	3
PL	220	Thermoplastic Design	3	3
PL	223	Thermoset Design	2	2
CHEM	210	Chemistry	3	4
PHYS	210	Physics	2	2
ENG	200	Language and Communication	3	3
MATH	201	Mathematics	3	3
EC	212	Business Organization	1	1
			27	30

NAME OF PROGRAM: TOOL AND DIE DESIGN

GBC CODE NO.: EN 3

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES:

Grade 12 of a 4 or 5 year program which includes Physics, Chemistry, and Mathematics. Drafting and shop options would be an asset.

GENERAL INFORMATION:

The aim of the Tool and Die Design Program is to develop the necessary theoretical practical skills. He studies Mathematics, Metallurgy, Metrology, Mechanics of Materials, so that his designs may be functional. In the course of his daily work routine, the designer is involved in liaison work between many company departments so that the study of language and communications is extremely important.

For the enterprising graduate, prospects of advancement exist in Production, Manufacturing and Industrial Engineering.

Continued

Program Contents:

			Credit Units per Semester:	Periods per Week:
FIRST YEAR				
DR	118	Descriptive Geometry	2	3
TD	100	Jig and Fixture Design I	2	3
TD	101	Jig and Fixture Design II	2	3
TD	102	Jig and Fixture Design III	1	1
TD	103	Jig and Fixture Design IV	1	1
MACH	120	Jigs and Fixtures I	1.5	2
MACH	121	Jigs and Fixtures II	1.5	2
MACH	122	Gauges 1 Semester (3 hours)	1	1.5
MACH	123	Diemaking	1.5	2
WELD	145	Welding 1 Semester (3 hours)	1	1.5
WELD	146	Welding		
TD	110	Metrology	2	2
MATH	100	Mathematics	4	4
MECH	100	Mechanics	3	3
ENG	100	Language & Communication	2	2
			25.5	31
EL	105	Electrical Fundamentals Elective	2	2
CHEM	100	Chemistry Elective	2	3
PHYS	100	Physics Elective	2	2
TD	204	Process Engineering Elective	2	2
TD	206	Quality Control Elective	2	2
EC	100	Economics Elective	2	2

NAME OF PROGRAM: TOOL AND DIE DESIGN CONT'D

GBC CODE NO.: EN 3

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

It should be noted that Toolmaking Technician and Tool Design Technician students undertake a common first year program so that they may have the choice of specializing in either area during the second year.

Program Contents:

		Credit Units per Semester	Periods per Week:
SECOND YEAR			
TD200	Die Design I	3	4
TD201	Die Design II	3	4
TD202	Die Design III	3	4
TD301	Tool Design Theory	2	3
MACH207	Diemaking	2	4
MET100	Metallurgy	2	2
MATH200	Mathematics	4	4
MECH110	Mechanics of Materials	2	2
ENG200	Language &Communication Options	2	2
PL125	Plastics Fundamentals	2	2
		25	31
EL105	Electrical Fundamentals Elective	2	2
CHEM100	Chemistry Elective	2	3
PHYS100	Physics Elective	2	2
TD204	Process Engineering Elective	2	2
TD206	Quality Control Elective	2	2
EC100	Economics Elective	2	2

NAME OF PROGRAM: TOOLMAKING TECHNICIAN

GBC CODE NO.: EN 4

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	2 YEARS	$160.00 PER YEAR	DIPLOMA

PREREQUISITES: Grade 12 of a 4 or 5 year program which includes Physics, Chemistry and the Mathematics. Machine Shop or Drafting options would be an asset.

GENERAL INFORMATION:

On the Toolmaking Technician program, the student can obtain the theoretical knowledge and operating skills necessary to enable him to enter a toolroom at a junior level. Instruction is provided on standard machine tools and in current techniques such as numerical control. Related courses are offered to complement instruction in the major subject area. The graduate can look forward to a vital and interesting career in the modern production process, a career which demands skill, application, accuracy and cost-consciousness.

Continued

Program Contents:

		Credit Units per Semester	Periods per Week:
FIRST YEAR			
TD100	Jig and Fixture Design I	2	3
TD101	Jig and Fixture Design II	2	3
TD102	Jig and Fixture Design III	1	1
TD103	Jig and Fixture Design IV	1	1
MACH120	Jigs and Fixtures I	1.5	2
MACH121	Jigs and Fixtures II	1.5	2
MACH122	Gauges	1.5	2.5
MACH123	Diemaking	1.5	2
MACH126	Numerical Control	1.5	2.5
TD110	Metrology	2	2
MATH100	Mathematics	4	4
MECH100	Mechanics	3	3
ENG100	Language and Communication	2	2
		24.5	30
ELECTIVES			
PHYS100	Physics Elective	2	2
EL105	Electrical Fundamentals Elective	2	2
CHEM100	Chemistry Elective	2	3
TD204	Process Engineering Elective	2	2
TD206	Quality Control Elective	2	2

NAME OF PROGRAM: TOOLMAKING TECHNICIAN CONT'D

GBC CODE NO.: EN 4

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Toolmaking Technician and Tool and Die Design Technician students undertake a common first year program so that they may have the choice of specializing in either area during the second year.

Program Contents:		Credit Units per Semester	Periods per Week:
SECOND YEAR			
MACH203	Special Machine Techniques	2	3
MACH204	Diemaking I	2	3
MACH205	Diemaking II	2	3
MACH206	Diemaking III	2	3
MACH208	Numerical Control	2	2
PL125	Plastics Fundamentals	2	2
TD205	Die Design	2	4
MET100	Metallurgy	2	2
MATH200	Mathematics	4	4
MECH110	Mechanics of Materials	2	2
ENG200	Language and Communication Options	2	2
		24	30
ELECTIVES			
PHYS100	Physics Elective	2	2
EL105	Electrical Fundamentals Elective	2	2
CHEM100	Chemistry Elective	2	3
TD204	Process Engineering Elective	2	2
TD206	Quality Control Elective	2	2

NAME OF PROGRAM: MACHINE AND PRODUCT DESIGN

GBC CODE NO.: EN 5

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	2 YEARS	$160.00 PER YEAR	DIPLOMA

PREREQUISITES: Grade 12 of a 4 or 5 year program which includes Physics, Chemistry, and Mathematics. Drafting and shop options would be an asset.

GENERAL INFORMATION:

Machines, mechanical devices, and products of greatly sophisticated design are characteristic of modern industry. The design drawings, schematics, detail drawings, and assembly drawings for these machines and products are drawn by machine design or product design draftsmen. Through this program the student can gain the theoretical and practical knowledge which is required by draftsmen in manufacturing companies and other industrial organizations in the general mechanical field.

Graduates may be employed as draftsmen, designers, process planners, salesmen, or estimators by manufacturing industries, consulting engineers and government depts.

Program Contents:		Credit Units per Semester	Periods per Week:
FIRST YEAR			
DR101	Machine Drawing and Design	8	11
MACH110	Workshop Technology	2.5	4
DR118	Descriptive Geometry I	3	4
MATH100	Mathematics	4	4
MECH100	Mechanics	3	3
MET100	Metallurgy	2	2
DR207	Kinematics I	1.5	2
ENG100	Language and Communication	2	2
		26	32
EC100	Economics Elective	2	2
CHEM100	Chemistry Elective	2	2
TD204	Process Engineering Elective	2	2
TD206	Quality Control Elective	2	2

NAME OF PROGRAM: MACHINE AND PRODUCT DESIGN CONT'D

GBC CODE NO.: EN 5

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:		Credit Units per Semester	Periods per Week:
SECOND YEAR			
DR201	Drawing and Product Design	6	9
MACH201	Manufacturing Processes	1	2
DR207	Kinematices II	1.5	2
DR222	Descriptive Geometry II	3	4
MATH200	Mathematics	4	4
PHYS100	Applied Physics	2	2
MECH110	Mechanics of Materials	2	2
ENG200	Language and Communication Options	2	2
WELD145/146	Welding (3 hours 1 semester)	1	1.5
PL125	Plastics (3 hours 1 semester)	1.5	1.5
EL105	Electrical Fundamentals	2	2
		26	32
EC100	Economics Elective	2	2
CHEM100	Chemistry Elective	2	2
TD204	Process Engineering Elective	2	2
TD206	Quality Control Elective	2	2

NAME OF PROGRAM: PROCESS PIPING DESIGN

GBC CODE NO.: EN 6

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES: Grade 12 of a 4 or 5 year program which includes Physics, Chemistry and Mathematics. Drafting and shop options would be an asset.

GENERAL INFORMATION:

Employment Opportunities: Pipes are the arteries and veins of any modern, industrial community. Fluids and semi solids, essential to our existence as a highly industrialized society, are carried by pipes during their production, processing, transportation and utilization.

Future developments in atomic energy, rocket propulsion, petro-chemicals, food and drug production, cryogenics and pollution control, are creating demands for more sophisticated piping techniques. This challenge will require the services of highly skilled technicians and draftsmen.

The program is designed to prepare graduates for employment as technicians, draftsmen and estimators by cousulting, and design engineers, public utilities and manufacturing indsutries.

Program Contents:			Credit Units per Semester:	Periods per Week:
FIRST YEAR				
DR	104	Pipe Drafting and Design	7	10
MATH	100	Mathematics	4	4
DR	118	Descriptive Geometry	3	4
ENG	100	Language and Communication	2	2
MECH	100	Mechanics	3	3
DR	115	Structural Drafting	2	3
MET	100	Metallurgy	2	2
PHYS	100	Applied Physics	2	2
			25	30
EL	105	Electrical Fundamentals Elective	2	2
EC	100	Economics Elective	2	2
INST	103	Piping and Instrumentation Lab.	2	3
SECOND YEAR				
DR	204	Design and Layout of Piping Systems	8	10
MATH	200	Mathematics	4	4
DR	222	Descriptive Geometry	3	4
ENG	200	Language and Communication Options	2	2
CHEM	100	Chemistry	2	3

NAME OF PROGRAM: PROCESS PIPING DESIGN CONT'D

GBC CODE NO.: EN 6

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods per Week:
SECOND YEAR				
DR	225	Materials and Processes	2	2
EN	107	Mechanics of Fluids	2	2
INST	106	Industrial Process Instrumentation	2	3
			25	30

NAME OF PROGRAM: MATERIALS HANDLING DESIGN

GBC CODE NO.: EN 7

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES: Grade 12 of a 4 or 5 year program which includes Physics, Chemistry, and Mathematics. Drafting and shop options would be an asset.

GENERAL INFORMATION:

Employment Opportunities: Increasing automation and the application of modern packaging and handling techniques resulted in the development of the specialized field of materials handling design. The plant layouts, estimates, schematics, assembly and detail drawings of handling equipment and systems are produced by designer and draftsmen trained in the many facets of materials handling design. This program provides the student with theoretical and practical knowledge sufficient to enable him to enter the materials handling design field.
Graduates may be employed as draftsmen, designers, salesmen, estimators or planners by processing and manufacturing plants, consulting engineers, primary industries and research and development companies.

Program Contents:			Credit Units per Semester:	Periods per Week:
FIRST YEAR				
DR	123	Engineering Drawing and Design	7	10
DR	115	Structural Drafting	2	3
DR	118	Descriptive Geometry	3	4
MECH	100	Mechanics	3	3
EL	106	Electrical and Electronic Fundamentals	2	2
PHYS	100	Physics	2	2
MATH	100	Mathematics	4	4
ENG	100	Language and Communication	2	2
			25	30
SECOND YEAR				
DR	212	Plant Layout and Handling Systems	7	10
DR	207	Kinematics	3	4
DR	222	Decriptive Geometry	2	3
MECH	110	Mechanics of Materials	2	2
TD	207	Industrial Engineering	2	2
INST	107	Applied Control Theory	2	3
MATH	200	Mathematics	4	4
ENG	200	Language and Communication Options	2	2
			24	30

NAME OF PROGRAM: MATERIALS HANDLING DESIGN CONT'D

GBC CODE NO.: EN 7

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods per Week:
EC	100	Economics Elective	2	2
CHEM	100	Chemistry Elective	2	2
EN	107	Mechanics of Fluids	2	2

NAME OF PROGRAM: MATERIALS EVALUATION

GBC CODE NO.: EN 8

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES: Grade 12 of the 4 or 5 year program with Mathematics, Physics and Chemistry.

GENERAL INFORMATION:

The graduate will be prepared for employment in the materials testing, quality control and inspection departments of automtive and power generating equipment manufacturers, steel producing and pipeline companies, nuclear construction, and aircraft overhaul and manufacturing companies.

Program Contents:			Credit Units per Semester:	Periods per Week:
FIRST YEAR Semester I				
MAT	100	Materials Science	4	7
TEST	100	Elements of Testing	2	4
DR	100	Technical Drawing	2	3
MECH	100	Mechanics	6	6
MATH	100	Mathematics	4	4
PHYS	103	Physics	2	3
ENG	100	Language and Communication	2	2
TD	110	Metrology	2	2
			24	31
Semester II				
MAT	100	Materials Science	4	7
TEST	100	Elements of Testing	4	6
DR	100	Technical Drawing	2	3
MATH	100	Mathematics	4	4
PHYS	103	Physics	2	3
ENG	100	Language and Communication	2	2
MECH	110	Mechanics of Materials	4	4
			22	29
SECOND YEAR				
TEST	200	Testing Techniques	11	17
MATH	200	Mathematics	4	4
MAT	200	Materials Science	3	5
ELTC	110	Electronic Fundamentals	2	2
ENG	200	Language and Communication	2	2
			22	30

NAME OF PROGRAM: COATING TECHNOLOGY

GBC CODE NO.: EN 9

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES: Grade 12 of the 4 or 5 year program with Mathematics, Physics and Chemistry.

GENERAL INFORMATION:

This program has been designed in conjunction with representative committees of the paint and coatings industry to prepare students to enter technical, production, sales and junior management areas of the industry. After a minimum of two years' industrial experience, the graduate will be eligible to apply to the Paint Industry Education Bureau for recognition as a "Paint Technologist".

Program Contents:

			Credit Units per Semester:	Periods per Week:
FIRST YEAR	Semester I			
CHEM	110	Chemistry	6	8
CHEM	111	Analytical Chemistry	3	4
CHEM	112	Industrial Chemistry	3	4
COAT	100	Basic Paint Technology	4	6
MATH	100	Mathematics	4	4
PHYS	100	Physics	2	2
ENG	100	Language and Communication	2	2
			24	30
	Semester II			
CHEM	113	Organic Chemistry	3	4
CHEM	111	Analytical Chemistry	3	4
CHEM	112	Industrial Chemistry	3	4
COAT	100	Basic Paint Technology	7	10
MATH	100	Mathematics	4	4
PHYS	100	Physics	2	2
ENG	100	Language and Communication	2	2
			24	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: COATING TECHNOLOGY CONT'D

GBC CODE NO.: EN 9

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
	2 YEARS	$160.00	DIPLOMA

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

			Credit Units per Semester:	Periods per Week:
SECOND YEAR				
COAT	200	Paint Manufacture and Testing	3	6
COAT	201	Resins	2	3
COAT	202	Pigments	2	3
COAT	203	Solvents	2	2
COAT	204	Oils and Driers	2	2
CHEM	210	Polymer Chemistry	3	4
CHEM	212	Industrial Chemistry	2	2
MATH	200	Mathematics	4	4
MAT	101	Materials Science	2	2
ENG	200	Language	2	2
			24	30

NAME OF PROGRAM: ORTHOTIC-PROSTHETIC TECHNIQUES

GBC CODE NO.: EN 10

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	Orthotic-Prosthetic Technician, 2 yrs. Orthotist/ Prosthetist, 3 yrs. (plus internship)	$160.00 PER YEAR	DIPLOMA

PREREQUISITES:

Grade 12 or the 4 or 5 year program with Chemistry, Physics and preferably some shop experience.

GENERAL INFORMATION:

The graduate of the two year orthotic/prosthetic techniques program will receive a background in materials, fabrication methods, anatomy, biomechanics, design and shop practice to allow him to find employment as a technician in private establishments or government rehabilitation centres.
The graduate of the three year orthotic/prosthetic techniques program will undertake additional special studies in advanced anatomy, physiology, pathology, rehabilitation, physical therapy and occupational therapy such that after a two year internship he will be able to apply for certification as a registered prosthetist or orthotist.

Program Contents:		Credit Units per Semester:	Periods per Week:
FIRST YEAR			
SEMESTER I			
MED100	Introductory Anatomy & Biomechanics	5	5
PROS100	Introductory Orthopaedics	2	2
PROS101	Materials & Shop Techniques	3	6
PROS101	Plastics	1.5	2
PROS101	Machine Shop	1.5	3
DR100	Technical Drawing	2	3
MECH100	Mechanics	3	3
MET100	Metallurgy	2	2
MATH107	Mathematics	2	2
ENG100	Language and Communication	2	2
		24	30
SEMESTER II			
MED100	Introductory Anatomy & Biomechanics	5	5
PROS100	Introductory Orthopaedics	2	2
PROS101	Materials and Shop Techniques	1	2
PROS101	Plastics	1.5	2
PROS101	Machine Shop	1.5	3
WELD145	Welding	2	4
DR100	Technical Drawing	2	3
MECH100	Mechanics	3	3

NAME OF PROGRAM: ORTHOTIC-PROSTHETIC TECHNIQUES CONT'D

GBC CODE NO.: EN 10

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:		Credit Units per Semester:	Periods per Week:
MET100	Metallurgy	2	2
MATH107	Mathematics	2	2
ENG100	Language and Communication	2	2
		24	30
ELECTIVES			
CHEM100	Chemistry Elective	2	2
EL105	Electrical Fundamentals	2	2
SECOND YEAR			
SEMESTER I			
MED200	Intermediate Anatomy	4	4
MED201	Introductory Physiology	2	2
MED202	Introductory Pathology	1	1
PSY202	Psychology	2	2
PROS200	Orthotic & Prosthetic Techniques	4	7
PROS202	Plastics	1	2
PROS202	Machine Shop	1	2
PROS203	Field Practice	4	6
DR213	Technical Drawing II	1	2
MECH110	Mechanics of Materials	2	2
		22	30
SEMESTER II			
MED200	Intermediate Anatomy	4	4

NAME OF PROGRAM: ORTHOTIC-PROSTHETIC TECHNIQUES CONT'D

GBC CODE NO.: EN 10

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES

GENERAL INFORMATION

Program Contents:		Credit Units per Semester:	Periods per Week:
MED201	Introductory Physiology	2	2
MED202	Introductory Pathology	1	1
PSY203	Rehabilitation	2	2
PROS200	Orthotic & Prosthetic Techniques	4	7
PROS202	Materials & Shop Techniques	1	2
PROS202	Machine Shop	1	2
DR213	Technical Drawing II	1	2
PROS203	Field Practice	4	6
PROS203	Mechanics of Materials	2	2
		22	30
ELECTIVES			
PHYS100	Physics Elective	2	2
EC100	Electrical Fundamentals Elective	2	2
CHEM100	Chemistry Elective	2	3
EL105	Electrical Fundamentals	2	2
THIRD YEAR			
MED300	Advanced Anatomy and Kinesiology	2	2
MED301	Physiology	1	1
MED302	Pathology	1	1
PROS300	Advanced Orthotic and Prosthetic Techniques	4	6
PROS301	Physical and Occupational Therapy	1	1
PROS302	Research Project	4	6
PROS303	Field Practice	8	12
EC113	Business Organization	1	1
		22	30

NAME OF PROGRAM: WATCHMAKING

GBC CODE NO.: EN 11

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES	CERTIFICATION
CASA LOMA CAMPUS	3 YEARS	$160.00 per year	CERTIFICATE

PREREQUISITES:

Grade 10 or equivalent

GENERAL INFORMATION:

1. Two Year College Program - Graduates of the two year college program are qualified for employment in jewellery stores as watch repairers or in precision industries as craftsmen.

2. Three Year College Program - With an ever increasing number of electrical and electronic watches and clocks, it has been necessary to develop a program of study which will qualify students in this new field of horology. This program will also provide additional training in servicing complicated watches such as chronographs, complete phase calendar watches, and complicated clocks.

Program Contents:			Credit Units per Semester:	Periods per Week:
FIRST YEAR		Semester I		
WATCH	130	Theory of Watchmaking	6	6
WATCH	131	Watchmaking Skills	12	18
SBM	132	Small Business Management	2	2
ENG	132	Language and Business Correspondence	2	2
MET	130	Metallurgy I	2	2
			24	30
		Semester II		
WATCH	132	Theory of Watchmaking	6	6
WATCH	133	Watchmaking Skills	12	18
SBM	132	Small Business Management	2	2
ENG	132	Language and Business Correspondence	2	2
MET	130	Metallurgy I	2	2
			24	30

NAME OF PROGRAM: WATCHMAKING CONT'D

GBC CODE NO.: EN 11

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods per Week:
SECOND YEAR Semester I				
WATCH	232	Theory of Watchmaking	6	6
WATCH	231	Watchmaking Skills	12	18
SBM	232	Small Business Managment	2	2
DR	100	Drafting	2	2
PHYS	130	Physics	2	2
			24	30
Semester II				
WATCH	232	Theory of Watchmaking	6	6
WATCH	233	Watchmaking Skills	12	18
SBM	232	Small Business Management	2	2
PHYS	130	Physics	2	2
DR	100	Drafting	2	2
			24	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: WATCHMAKING CONT'D

GBC CODE NO.: EN 11

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods per Week:
THIRD YEAR Semester I				
WATCH	330	Theory of Watchmaking	5	5
WATCH	331	Watchmaking Skills	12	19
MATH	136	Mathematics	2	2
ELTC	115	Electronics	4	4
			23	30
Semester II				
WATCH	332	Theory of Watchmaking	5	5
WATCH	333	Watchmaking Skills	12	19
MATH	136	Mathematics	2	2
ELTC	115	Electronics	4	4
			23	30

NAME OF PROGRAM	GBC CODE NO.: EN 12
PRECISION INSTRUMENT TECHNIQUES	OMRP CODE NO.:

LOCATION:	LENGTH:	FEES	CERTIFICATION
CASA LOMA/KENSINGTON	2 YEARS 2100 HRS.	$160.00	DIPLOMA

PREREQUISITES:

Grade 10

GENERAL INFORMATION:

Employment opportunities are wide and varied. Many industries require personnel possessing a high degree of manual skills integrated with a sound electronics background. Such industries migh include: INSTRUMENT DEPARTMENTS, CONTROL SYSTEMS AND GUIDANCE MANUFACTURERS, GEOPHYSICAL SERVICES, PARAMEDICAL SERVICES, ENVIRONMENTAL AND METEORLOGICAL DEPARTMENTS, AIRCRAFT SYSTEMS MAINTENANCE, etc.

Program Contents:			Credit Units per Semester:	Periods per Week:
MODULE ONE				
EL	106	Electrical Fundamentals I	5	6
EL	107	Electrical Fundamentals II	3	4
ELTC	107	Electronic Fundamentals	3	4
INST	103	Instrumentation Fundamentals	4.5	7
DR	100	Technical Drawing	1.5	2
MATH	101	Circuit Analysis	8	8
			25	31
MODULE TWO				
INST	101	Electronic Instrumentation	6	9
DR	100	Applied Drawing	3	4
PIT	100	Horological Techniques	7.5	11
MECH	103	Mechanics	3	3
ECO	100	Economics	3	3
ENG	100	Language and Communication	3	3
			25.5	33

NAME OF PROGRAM	GBC CODE NO.: EN 12
PRECISION INSTRUMENT TECHNIQUES CONT'D	OMRP CODE NO.:

LOCATION:	LENGTH:	FEES	CERTIFICATION

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods per Week:
MODULE TWO a				
INST	206	Applied Electronics	7	10
PIT	100	Horological Techniques	5	8
MECH	103	Mechanics	3	3
ENG	100	Language and Communications	3	3
ECO	100	Economics	3	3
DR	100	Applied Drawing	3	4
PIT	200	Research Seminar	1	2
			25	33
MODULE THREE				
INST	209	Control Theory and Application	5	6
MET	100	Metallurgy	3	3
PIT	201	Horological Techniques	5	8
PHYS	100	Physics	4	4
MATH	200	Mathematics	4	4
ENG	200	Language and Communication	2	2
CHEM	100	Applied Chemistry	2	3
			25	30

NAME OF PROGRAM: PRECISION INSTRUMENT TECHNIQUES CONT'D

GBC CODE NO.: EN 12

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

			Credit Units per Semester:	Periods per Week:
MODULE FOUR				
INST	203	Computer Control Principles I	6	10
INST	202	Analytical Instrumentation	5	7
MET	100	Metallurgy	3	3
PHYS	100	Applied Physics	4	4
MATH	200	Mathematics	4	4
CHEM	100	Applied Chemistry	2	3
			24	31
MODULE FOUR a				
INST	109	Environmental Studies	4	5
INST	205	Applied Electronics	5	8
PHYS	100	Applied Physics	4	4
MATH	200	Mathematics	4	4
CHEM	100	Applied Chemistry	2	3
PIT	203	Industrial Preparation	2	2
DR		Applied Drawing	3	4
			24	30

NAME OF PROGRAM: INSTRUMENTATION TECHNOLOGY
THE SCIENCE OF INDUSTRIAL MEASUREMENT & CONTROL

GBC CODE NO.: EN 14

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KENSINGTON	2700 HOURS	$160.00	DIPLOMA

PREREQUISITES:

Ontario Grade 12 with above average standing in Mathematics and Science.

GENERAL INFORMATION:

Instrumentation Technologists are employed in government departments, universities, manufacturing plants; particularly chemical, petrochemical, steel, pulp and paper, primary industries and research and development companies.

Program Contents:

			Credit Units per Semester:	Periods per Week:
MODULE ONE				
EL	106	Electrical Fundamentals I	5	6
EL	107	Electrical Fundamentals II	3	4
ELTC	107	Electronic Fundamentals	3	4
INST	108	Instrumentation Fundamentals	4.5	7
DR	100	Technical Drawing	1.5	2
*MATH	101	Circuit Analysis	8	8
			25	31
MODULE TWO				
INST	100	Measuring Principles	5.5	8
INST	101	Electronic Instrumentation	6	9
INST	103	Piping and Instrument Lab Techniques	2	3
ENG	100	Language and Communication	2	2
PHYS	100T/1I	Applied Physics	4	4
EC	100	Economics	4	4
			23.5	30

*MATH 100 Equivalent

NOTE: Each module is of 15 weeks' duration.

NAME OF PROGRAM: INSTRUMENTATION TECHNOLOGY CONT'D
THE SCIENCE OF INDUSTRIAL MEASUREMENT & CONTROL

GBC CODE NO.: EN 14

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods per Week:
MODULE THREE				
INST	104	Telemetering	6	9
INST	205	Applied Electronics	7	10
PHYS	100T/2I	Applied Physics	4	4
MATH	200T/1I	Mathematics	4	4
ENG	100	Language and Communication	2	2
			23	29
MODULE FOUR				
INST	200	Automatic Control Principles I	7	10
INST	201	Final Control Elements	4.5	7
ENG	200	Language and Communication	2	2
MATH	200T/2I	Mathematics	4	4
PHYS	200T/1I	Modern Physics	4	4
CHEM	100T/1I	Physical Chemistry	2	4
			23.5	31

NOTE: Each module is of 15 weeks' duration

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: INSTRUMENTATION TECHNOLOGY CONT'D
THE SCIENCE OF INDUSTRIAL MEASUREMENT & CONTROL

GBC CODE NO.: EN 14

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods per Week:
MODULE FIVE				
INST	202	Analytical Instrumentation	4	7
INST	203	Computer Control Principles I	6	10
MATH	300T/1I	Mathematics	4	4
ENG	200	Language and Communication	2	2
PHYS	200T/2I	Modern Physics	4	4
CHEM	100T/2I	Organic and Inorganic Chemistry	3	4
			23	31
MODULE SIX				
INST	300	Automatic Control Principles II	3	4
INST	301	Computer Control Principles II	5	8
INST	305T	Applied Electronics	5	8
INST	303	Research Seminar	2	2
CHEM	200	Industrial Chemistry	4	4
MATH	300T/2I	Mathematics	4	4
			23	30

NOTE: Each module is of 15 weeks' duration

NAME OF PROGRAM: BUSINESS EQUIPMENT SERVICING

GBC CODE NO.: EN 41

OMRP CODE NO.: 605

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	1 YEAR (40 weeks)	$120.00 per year	CERTIFICATE

PREREQUISITES:

Grade 12 (preferably) or Grade 10 and satisfactory completion of specified aptitude tests.

GENERAL INFORMATION:

This program is designed to provide the student with the theoretical and practical knowledge of various types of business machines; knowledge which is required of a business machine representative.

A business machine representative analyses and solves problems which occur on business equipment and assists customers to operate machines in a proper manner. The prospective representative should display a good mechanical aptitude, be neat and presentable, and be able to co-operate with other people. He should possess a current driving licence.

Because machines are increasing in number and in complexity, prospects in this occupation are excellent for the man who is ambitious and capable of working with a minimum of supervision.

Program Contents:

			Credit Units per Semester:	Periods per Week:
BES	101	Figuring Machines	7	10
BES	102	Photocopying Machines	1	1
BES	100	Typewriters	6	9
EL	130	Electricity	2	2
PHYS	130	Physics	2	2
MATH	134	Mathematics	3	3
DR	132	Blueprint Reading	1	1
ENG	130	Language and Communication	2	2
			24	30

NAME OF PROGRAM: INSTRUMENTATION MECHANIC

GBC CODE NO.: EN 42

OMRP CODE NO.: 628

LOCATION:	LENGTH:	FEES:	CERTIFICATION
KENSINGTON CAMPUS	1 YEAR (40 weeks)	$120.00 per year	CERTIFICATE

PREREQUISITES:

GRADE 10

GENERAL INFORMATION:

Instrumentation mechanics are required wherever industries are located. These include chemical plants, power plants, steel plants, pulp and paper plants, pipelines, refineries and the instrument companies which make, sell and service the instruments. Instrument men may work as field service representatives, in the base plant on manufacture, repair or calibration, or in process plants on instrument maintenance. Students graduating from this course with honours standing will be considered for admission to the Instrumentation Technician program.

Program Contents:

			Credit Units per Semester:	Periods per Week:
FIRST SEMESTER				
INST	131	Electronic Instrumentation	11	17
INST	132	Installation Techniques	2	3
DR	137	Applied Drawing	1	2
MATH	132	Mathematics	3	3
ENG	130	Language and Communication	2	2
PHYS	132	Applied Physics	3	3
			22	30
SECOND SEMESTER				
INST	130	Pneumatic Instrumentation	11	18
INST	133	Analytical Instrumentation	3	4
MATH	132	Mathematics	3	3
ENG	130	Language and Communication	2	2
PHYS	132	Applied Physics	3	3
			22	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: MACHINE SHOP PRACTICE

GBC CODE NO.: EN 44

OMRP CODE NO.: 808

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	1 YEAR (40 weeks)	$120.00 per year	CERTIFICATE

PREREQUISITES:

GRADE 10

GENERAL INFORMATION:

This course is designed to prepare students for entry into industry as machinists, apprentices, or machine operators. The category in which a student finds employment depends upon his age, previous experience, and the levels of skill and knowledge which he has acquired. Students find it advantageous to have completed Grade 12 in Machine Shop but, with suitable aptitudes and a willingness to work hard, those who have completed Grade 10 may prove successful in the course and later become good machinists.
Instruction is particularly concerned with measurement and machining to close tolerances, combined with production speeds and efficiencies of manufacture, sharpening cutting tools, and setting up machines.

Program Contents:			credit Units per Semester:	Periods per Week:
MACH	140	Benchwork	1.5	2
MACH	141	Lathework	3.5	6
MACH	142	Milling and Shaping	2.5	4
MACH	143	Grinding	2	3
WELD	145	Welding	1	1
WELD	146	Welding		
DR	130	Blueprint Reading	2	4
MET	132	Metallurgy	2	2
MATH	136	Mathematics	4	4
PHYS	140	Physics	2	2
ENG	130	Language and Communication	2	2
			22.5	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: SET-UP MAN, THERMOPLASTIC (MACHINE MOULDING)

GBC CODE NO.: EN 45

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION
CASA LOMA CAMPUS	1 SEMESTER	$85.00	CERTIFICATE

PREREQUISITES:

Grade 10 with Drafting

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods per Week:
PL	130	Thermoplastic Materials	4	4
PL	133	Thermoplastic Processes	10	14
PL	136	Thermoplastic Design	6	8
CHEM	135	Chemistry	1	1
PHYS	135	Physics	1	1
ENG	141	Language and Communication	1	1
MATH	133	Mathematics	1	1
			24	30

NAME OF PROGRAM: PLASTICS THEORY AND TECHNIQUES OPERATOR/THERMOPLASTIC(FORMING AND FABRICATING)

GBC CODE NO.: EN 46

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	1 SEMESTER	$ 85.00	CERTIFICATE

PREREQUISITES:

Grade 10 with Drafting

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods per Week:
PL	131	Thermoplastic Materials	4	4
PL	134	Thermoplastic Processes	10	14
PL	137	Thermoplastic Design	6	8
CHEM	135	Chemistry	1	1
PHYS	135	Physics	1	1
ENG	141	Language and Communication	1	1
MATH	133	Mathematics	1	1
			24	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: PLASTICS THEORY AND TECHNIQUES OPERATOR/THERMOSET (HAND LAY-UP)

GBC CODE NO.: EN 47

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	1 SEMESTER	$85.00	CERTIFICATE

PREREQUISITES:

Grade 10 with Drafting

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods per Week:
PL	132	Thermoset Materials	4	4
PL	135	Thermoset Processes	10	14
PL	138	Thermoset Design	6	8
CHEM	135	Chemistry	1	1
PHYS	135	Physics	1	1
ENG	141	Language and Communication	1	1
MATH	133	Mathematics	1	1
			24	30

NAME OF PROGRAM: PLASTICS THEORY AND TECHNIQUES SET-UP MAN/THERMOSET(MACHINE MOULDING)

GBC CODE NO.: EN 48

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	1 SEMESTER	$85.00	CERTIFICATE

PREREQUISITES:

Grade 10 with Drafting

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods per Week:
PL	140	Thermoset Materials	4	4
PL	141	Thermoset Processes	10	14
PL	139	Thermoset Design	6	8
CHEM	135	Chemistry	1	1
PHYS	135	Physics	1	1
ENG	141	Language and Communication	1	1
MATH	133	Mathematics	1	1
			24	30

NAME OF PROGRAM: PLASTICS THEORY AND TECHNIQUES TECHNICIAN B-THERMOSETS

GBC CODE NO.: EN 49

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	1 YEAR	$160.00	CERTIFICATE

PREREQUISITES:

Grade 12 with Physics, Chemistry and Drafting

GENERAL INFORMATION:

In Canada the growth rate of the plastics industry is more than double the industrial average. Over 1,100 companies are engaged in plastics; more than 600 of these firms are in Ontario. This rapid expansion has created a strong demand for technicians at several levels.

Program Contents:			Credit Units per Semester:	Periods per Week:
THERMOSET				
PL	103	Thermoset Materials	4	5
PL	203	" "		
PL	113	Thermoset Processes	4	8
PL	211	" "		
PL	123	Thermoset Design	4	4
PL	223	" "		
CHEM	110	Chemistry	3	4
PHYS	110	Physics	2	2
ENG	100	Language and Communication	3	3
MATH	100	Mathematics	4	4
EG	112	Business Organization	1	1
			25	31

NAME OF PROGRAM: PLASTICS AND THEORY TECHNIQUES TECHNICIAN 'B' - THERMOPLASTICS

GBC CODE NO.: EN 50

OMRP CODE NO.:

LOCATION	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	1 YEAR	$160.00	CERTIFICATE

PREREQUISITES:

Grade 12 with Physics, Chemistry and Drafting

GENERAL INFORMATION

In Canada the growth rate of the plastics industry is more than double the industrial average. Over 1,100 companies are engaged in plastics; more than 600 of these firms are in Ontario. This rapid expansion has created a strong demand for technicians at several levels.

Program Contents:			Credit Units per Semester:	Periods per Week:
PL	100	Thermoplastic Materials	5	5
PL	200	" "		
PL	110	Thermoplastic Processes	5	7
PL	210	" "		
PL	120	Thermoplastic Design	5	5
PL	220	" "		
CHEM	110	Chemistry	3	4
PHYS	110	Physics	2	2
ENG	100	Language and Communication	3	3
MATH	100	Mathematics	4	4
EC	112	Business Organization	1	1
			28	31

NAME OF PROGRAM: WELDER FITTER

GBC CODE NO.: EN 51

OMRP CODE NO.: 815

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KENSINGTON CAMPUS	1 YEAR (40 weeks)	$120.00 per year	CERTIFICATE

PREREQUISITES:

Grade 10

GENERAL INFORMATION:

Modern welding processes are continuing to revolutionize the metal fabricating industries and will effect even greater changes as new processes are developed. Welding is an integral part of a great many trades and remains the most economical method of joining metals. Graduates of this program are well prepared to advance beyond the operator level to positions of responsibility; welding supervision, welding inspection, sales and manufacturers' representatives, are but a few. Students graduating from this program will be considered for the Welding Specialist program, which is designed to prepare graduates to proceed toward positions in the welding industry at the technician level.

Program Contents:			Credit Units per Semester:	Periods per Week:
WELD	140	Oxy-Acetylene Welding, Brazing and Cutting/Theory and Practice	2	3
WELD	141	Electric Arc Welding/Theory and Practice	6	10
WELD	142	Fabrication/Theory and Practice	3	5
WELD	143	Inert Gas Welding/Theory and Practice	1.5	2
WELD	144	Pipe Welding/Theory and Practice	1.5	2
DR	134	Plate and Structural Layout	1	2
DR	135	Blueprint Reading	1	2
MATH	136	Mathematics	2	2
ENG	130	Language and Communication	2	2
			20	30

NAME OF PROGRAM: WELDING OPERATOR

GBC CODE NO.: EN 52

OMRP CODE NO.: 816

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KENSINGTON CAMPUS	1 SEMESTER (20 wks.)	$60.00	CERTIFICATE

PREREQUISITES:

Grade 8 minimum

GENERAL INFORMATION:

This program provides an excellent opportunity for any man between 16 and 50 to learn a useful skill in a relatively short period of time and to enter a well-paying trade at a mechanic's level. Because welding is an integral part of a great many trades, graduates of this course experience little difficulty in finding suitable employment. Evening courses in special welding techniques are readily available for the ambitious person wishing to prepare for advancement.

Program Contents:			Credit Units per Semester:	Periods per Week:
WELD	130	Oxy-Acetylene Welding, Brazing and Cutting/Theory and Practice	5	9
WELD	131	Electric Arc Welding/Theory and Practice	9	16
DR	147	Bluepring Reading	2	3
ENG	141	Language and Communication	2	2
			18	30

NAME OF PROGRAM: WELDING SPECIALIST

GBC CODE NO.: EN 53

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	1 YEAR	$160.00 per year	CERTIFICATE

PREREQUISITES:

Prospective candidates should have successfully completed a Welding and Fabricating program at a College of Applied Arts and Technology or have specialized in welding at a Secondary School and possess a Grade 12 graduation diploma.

GENERAL INFORMATION:

This program provides the opportunity for young men with a basic knowledge of welding to achieve much greater competency in the highly specialized fields of manual and semi-automatic inert gas welding, uphill and downhill welding of pipe, and metal fabrication.
This program is designed to provide the opportunity for young men to develop valuable skills, and, in addition, acquire the theoretical background necessary to prepare them to advance toward such industrial positions as process development, weld testing and inspection, quality control and design, at the technician level.

Program Contents:			Credit Units per Semester:	Periods per Week:
WELD	100	Pipe Welding Processes	4	5
WELD	101	Tungsten Inert Gas Welding	1	2
WELD	102	Semi-Automatic and Automatic Welding Processes	2	3
WELD	103	Industrial Welding/Applications and Shop Procedures	4	5
MET	100	Metallurgy	2	2
MATH	100	Mathematics	4	4
ENG	100	Language and Communication	2	2
EL	100	Electrical Fundamentals	2	2
DR	118	Descriptive Geometry	1	2
DR	105	Technical Drawings	2	3
			24	30

NAME OF PROGRAM: WELDER FITTER REFRESHER

GBC CODE NO.: EN 54

OMRP CODE NO.: 822

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KENSINGTON CAMPUS	20 WEEKS	$60.00	CERTIFICATE

PREREQUISITES: Basic knowledge of welding theory and manipulative skills necessary for reasonably good quality workmanship in flat and horizontal positions using both electric arc and oxy-acetylene processes. This type of background is essential to achieve in 20 weeks the level of competence of a welder fillter graduate. A pre-induction theory and practical test is required.

GENERAL INFORMATION:

Welding processes are used in a wide variety of industries, ranging in scope from pipeline welding to consumer products, from ship building to construction welding. Welding offers many opportunities to the ambitious student. This program is designed to build upon and improve already acquired welding skills to standards required by the Boiler Inspection Branch of the Department of Labour. Graduates may expect to find employment at the mechanic's level in any one of a wide variety of industrial welding positions or related occupations.

Program Contents:		Credit Units per Semester:	Periods per Week:
WELD140	Oxy-Acetylene Welding, Brazing Cutting/Theory and Practice	2.5	4
WELD141	Electric Arc Welding/Theory and Practice	8	14
WELD142	Fabrication/Theory and Practice	2	4
WELD143	Inert Gas Welding/Theory and Practice	1.5	2
DR134	Plate and Structural Layout	1	2
DR135	Blueprint Reading	1	2
MATH136	Mathematics	2	2
		18	30

NAME OF PROGRAM: IRONWORKER APPRENTICE

GBC CODE NO.: EN 70

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	Basic: 8 weeks Intermediate: 7 wks. Advanced: 7 "	SPONSORED	CERTIFICATE

PREREQUISITES: Refer to the Industrial Training Branch of the Department of Labour.

GENERAL INFORMATION:

Program Contents:		Credit Units per Semester:	Periods per Week:
BASIC PROGRAM			
IRON 10	Ironwork I	7	16
MATH 10	Mathematics	1.5	3
ENG 10	English	1	2
PHYS 11	Applied Physics	1	2
DR 14	Drafting	1.5	3
WELD 11	Welding	0.5	2
WELD 21	Welding	0.5	2
		13	30
INTERMEDIATE PROGRAM			
IRON 20	Ironwork II	7	16
MATH 20	Mathematics	1.5	3
ENG 20	English	1	2
PHYS 21	Physics	1	2
DR 20	Drafting	1.5	3
WELD 10	Welding	0.5	2
WELD 20	Welding	0.5	2
		13	30
ADVANCED PROGRAM			
IRON 30	Ironwork III	7	16
MATH 30	Mathematics	1.5	3
ENG 30	English	1	2
PHYS 31	Applied Physics	1	2
DR 34	Drafting	1.5	3
WELD 41	Welding	1	4
		13	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: MACHINIST APPRENTICE

GBC CODE NO.: EN 71

OMRP CODE NO.:

LOCATION: CASA LOMA CAMPUS

LENGTH: Basic: 8 Wks. Intermediate: 7 " Advanced: 7 "

FEES: SPONSORED

CERTIFICATION: CERTIFICATE

PREREQUISITES:

Refer to the Industrial Training Branch of the Department of Labour.

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods per Week:
BASIC PROGRAM				
MACH	10	Machine Shop	8	20
MATH	10	Mathematics	2	4
DR	14	Blueprint Reading	2	4
ENG	10	English	1	2
			13	30
INTERMEDIATE PROGRAM				
MACH	20	Machine Shop	8	20
MATH	20	Mathematics	2	4
DR	24	Blueprint Reading	2	4
ENG	20	English	1	2
			13	30
ADVANCED PROGRAM				
MACH	30	Machine Shop	8	20
MATH	30	Mathematics	2	4
DR	40	Blueprint Reading	2	4
ENG	30	English	1	2
			13	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: MILLWRIGHT APPRENTICE

GBC CODE NO.: EN 72

OMRP CODE NO.:

LOCATION: CASA LOMA CAMPUS

LENGTH: Basic: 8 wks. Intermediate: 7 " Advanced: 7 "

FEES: SPONSORED

CERTIFICATION: CERTIFICATE

PREREQUISITES:

Refer to the Industrial Training Branch of the Department of Labour.

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods per Week:
BASIC PROGRAM				
MILL	10	Millwright I	7	17
MATH	10	Mathematics	1.5	3
ENG	10	English	1	2
PHYS	11	Physics	0.5	1
DR	14	Blueprint Reading	1.5	3
WELD	10	Welding	1.5	4
WELD	11	Welding		
			13	30
INTERMEDIATE PROGRAM				
MILL	20	Millwright II	7	17
MATH	20	Mathematics	1.5	3
ENG	20	English	1	2
PHYS	21	Physics	0.5	1
DR	24	Blueprint Reading	1.5	3
WELD	20	Welding	1.5	4
WELD	21	Welding		
			13	30
ADVANCED PROGRAM				
MILL	30	Millwright III	7	17
MATH	30	Mathematics	1.5	3
ENG	30	English	1	2
PHYS	31	Physics	0.5	1
DR	34	Blueprint Reading	1.5	3
WELD	30	Welding	1.5	4
WELD	31	Welding		
			13	30

NAME OF PROGRAM: TOOLMAKING APPRENTICE

GBC CODE NO.: EN 74

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	Basic: 8 weeks Intermediate: 7 " Advanced: 7 "	SPONSORED	CERTIFICATE

PREREQUISITES:

Refer to the Industrial Training Branch of the Department of Labour.

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods per Week:
BASIC PROGRAM				
MACH	11	Toolmaking	8	20
MATH	10	Mathematics	2	4
DR	14	Blueprint Reading	2	4
ENG	10	English	1	2
			13	30
INTERMEDIATE PROGRAM				
MACH	21	Toolmaking	8	20
MATH	20	Mathematics	2	4
DR	24	Blueprint Reading	2	4
ENG	20	English	1	2
			13	30
ADVANCED PROGRAM				
MACH	31	Toolmaking	8	20
MATH	30	Mathematics	2	4
DR	41	Blueprint Reading	2	4
ENG	30	English	1	2
			13	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: LATHE OPERATOR

GBC CODE NO.: EN 75

OMRP CODE NO.: 807

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	1 Session (12 weeks)	$36.00	CERTIFICATE

PREREQUISITES:

Grade 10

GENERAL INFORMATION:

This course is designed to prepare students for entry into industry as Lathe Operators. Persons who have completed Grade 12 and have an interest in the Machine Tool industry will find this course most suitable as preparation for initial employment as a Toolroom or Production Lathe Hand.

Program Contents:			Credit Units per Semester:	Periods per Week:
MACH	137	Small Tools and Measurement	1	1
MACH	138	Lathe and Ancillary Equipment	5	21
DR	140	Blueprint Reading	1	4
MATH	133	Mathematics	2	4
			9	30

NAME OF PROGRAM: BLUEPRINT READING FOR WELDERS (BASIC)

GBC CODE NO.: EN 76

OMRP CODE NO.: 688

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	8 WEEKS	$24.00	CERTIFICATE

PREREQUISITES:

GRADE 8

GENERAL INFORMATION:

This program was developed specifically for the welder wishing to broaden his employment capability. Upon completion of the program the welder will know the basic language of drafting standards for welding detail and assembly drawings.

Program Contents:		Credit Units per Semester:	Periods per Week:
DR148	Blueprint Reading	10	20
MATH10	Mathematics	6	6
ENG10	Language and Communication	4	4
		20	30

NAME OF PROGRAM: BLUEPRINT READING FOR WELDERS (ADVANCED)

GBC CODE NO.: EN 77

OMRP CODE NO.: 689

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	8 WEEKS	$24.00	CERTIFICATE

PREREQUISITES:

Grade 8 and Blueprint Reading (Basic) EN 76

GENERAL INFORMATION:

This program is designed to equip the student with an in-depth knowledge required for employment within the welding industry. Through this program the student can gain experience in geometrical construction, radial line development and advanced symbols and dimensioning.

Program Contents:		Credit Units per Semester:	Periods per Week:
DR149	Blueprint Reading	10	20
MATH20	Mathematics	6	6
ENG20	English	4	4
		20	30

NAME OF PROGRAM: FOOD PROCESSING TECHNOLOGY

GBC CODE NO.: F 1

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KENSINGTON CAMPUS	3 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES: Grade 12, (of the 4 or 5 year stream) or acceptable equivalent, with a minimum standing of 60% in Science, (Physics, Chemistry, or Biology), Mathematics and English.

GENERAL INFORMATION:

This is a co-operative program designed to prepare the student for a career in any one of the many branches of the Food Processing Industry. Thorough schooling in the Applied and Biological Sciences and their application to the Processing of Food will be given. Concentrated instruction related to a specific branch of the Food Industry will be given in the final year.

The student will spend two semesters of four months each in academic training at the college, followed by a practical semester employed in the industry and will be paid prevailing rates by industry during this practical phase.

Two entry dates for each calendar year; the first in September and the second alternating between May and January on alternate years.

Opportunities in: Research and Development, Quality Control, Marketing, etc.

Program Contents:			Credit Units per Semester:	Periods per Week:
FIRST YEAR - Semester 1				
CHEM	102	General Chemistry	4.5	6
PHYS	103	Applied Physics	4.5	6
MATH	100	Mathematics	4	4
BIO	100	Biology	4.5	6
EC	100	Economics	3	3
FT	100	Food Industry	2	2
ENG	100	Language and Communication	3	3
			25.5	30
Semester 11				
CHEM	100	Chemistry	4.5	6
PHYS	103	Applied Physics	4.5	6
MATH	100	Mathematics	4	4
PHY	100	Physiology	4.5	6
EC	100	Economics	3	3
FT	100	Food Industry	2	2
ENG	100	Language and Communication	3	3
			25.5	30

Cont'd

NAME OF PROGRAM:	GBC CODE NO.: F 1
FOOD PROCESSING TECHNOLOGY	OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

			Credit Units per Semester:	Periods per Week:
SECOND YEAR - Semester 1				
CHEM	202	Organic Chemistry	4.5	6
FT	200	Food Engineering	5	6
FT	201	Food Processing	3	3
BIO	200	Food Microbiology	5	6
MATH	200	Mathematics	3	3
ENG	210	Communication in Industry	3	3
		Option	3	3
			26.5	30
Semester 11				
CHEM	202	Organic Chemistry	4.5	6
FT	200	Food Engineering	5	6
FT	201	Food Processing	3	3
BIO	200	Food Microbiology	5	6
MATH	200	Mathematics	3	3
ENG	212	Communication in Industry	3	3
		Option B	3	3
			26.5	30

OPTIONAL SUBJECTS

MAR	204	Advertising and Sales Promotion
MAR	203	Introduction to Marketing
ACC	206	Accounting
ACC	202	Cost Accounting
EDP	203	Introduction to Automatic Data Processing
INST	131	Electronic Instrumentation

Cont'd

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM:	GBC CODE NO.: F 1
FOOD PROCESSING TECHNOLOGY	OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

			Credit Units per Semester:	Periods per Week:
THIRD YEAR - Semester 1				
CHEM	301	Biochemistry	4.5	6
CHEM	300	Chemistry	3	3
CHEM	302	Chemistry	6	9
SAN	300	Sanitation and Pollution	2	2
TF	300	Control and Evaluation of Food Quality	2	2
MATH	316	Elementary Statistics	2	2
FT	201	Food Processing	3	3
		Option	3	3
			25.5	30
Semester 11				
CHEM	301	Biochemistry	4.5	6
CHEM	300	Chemistry	3	3
CHEM	301	Chemistry	6	9
SAN	300	Sanitation and Pollution	2	2
TF	300	Control and Evaluation of Food Quality	2	2
MATH	316	Elementary Statistics	2	2
FT	201	Food Processing	3	3
		Option	3	3
			25.5	30

OPTIONAL SUBJECTS

NUT	300	Applied Nutrition
INST	200	Automatic Control Principles 1

NAME OF PROGRAM:	GBC CODE NO.:	LOCATION:	LENGTH:	FEES:	CERTIFICATION:
DIETARY SERVICES ADMINISTRATION	F 2	KENSINGTON CAMPUS	2 YEARS	$160.00 per year	DIPLOMA
	OMRP CODE NO.:				

PREREQUISITES: Grade 12 of the 4 or 5 year Streams with a minimum of 60% in Science.

GENERAL INFORMATION:

Successful graduates of this course will find a demand for their services in the Food Service Department at public and private institutions as assistants to Administrative and Therapeutic Dieticians or Food Service Managers.

Program Contents:

			Credit Units per Semester:	Periods per Week:
FIRST YEAR - Semester I				
HIND	100	General Orientation	1	1
FP	100	Food Preparation (Basic)	6	8
SAN	100	Sanitation and Hygiene	3	3
FT	100	Food Products and Standards	4	4
HIND	101	Menu Planning and Food Merchandising	5	5
MATH	110	Mathematics	3	3
ENG	110	Language and Communication	3	3
ACC	102	Bookkeeping and Accounting	3	3
			28	30
Semester II				
FP	100	Food Preparation (Basic)	6	8
HIND	102	Field Experience	3	6
HIND	103	Food Cost Analysis and Control	5	5
HIND	104	Human Relations	2	2
NUT	100	Nutrition and Diets	3	3
ACC	102	Bookkeeping and Accounting	3	3
ENG	111	Language and Communication	3	3
			25	30

Cont'd

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM:	GBC CODE NO.:	LOCATION:	LENGTH:	FEES:	CERTIFICATION:
DIETARY SERVICES ADMINISTRATION	F 2				
	OMRP CODE NO.:				

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

			Credit Units per Semester:	Periods per Week:
SECOND YEAR - Semester I				
NUT	200	Therapeutic Nutrition	3	3
HIND	201	Automatic Food Merchandising	3	3
FP	204	Food Preparation (Advanced)	6	8
FP	205	Cooking Demonstrations Techniques		
	or			
HIND	200	Dining Room Service	4	6
EC	210	Economics 1	3	3
EC	103	Business Law	2	2
ENG	210	Communication	3	3
BUS	201	Business Organization and Financing	2	2
			26	30

Cont'd

NAME OF PROGRAM: DIETARY SERVICES ADMINISTRATIONS

GBC CODE NO.: F 2

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

			Credit Units per Semester:	Periods per Week:
SECOND YEAR - Semester II				
TF	201	Food Science	3	4
FP	203	Introduction to Convenience Foods	3	3
FP	201	Testing and Development of Convenience Foods	5	5
or				
BK	200	Quantity Baking and Dessert Preparation	(any two)	
or				
MC	200	Meat Cutting for Food Service Establishments	5	5
HIND	215	Types and Uses of Food Service Equipment	2	2
HIND	203	Design and Layout of Food Service Establishments	3	3
HIND	208	Payroll Analysis and Control	1	1
HIND	204	Personnel Management	3	3
HIND	206	Atmosphere and Interior Design	2	2
EC	211	Economics 11	3	3
			30	31

NAME OF PROGRAM: FOOD ADMINISTRATION

GBC CODE NO.: F 3

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KENSINGTON CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES: Admission Requirements: Grade 12 or Journeyman Chef certificate with 2nd class honours.

GENERAL INFORMATION:

This course is designed to fill the growing need for men and women who are trained to administer food production on a large scale. Students are taught all aspects of food production from purchasing through to service and in addition are schooled in modern methods of management.

Successful graduates of this course may look forward to well paid positions in restaurants, institutions, and industrial catering companies at the midmanagement levels.

Program Contents:

			Credit Units per Semester:	Periods per Week:
FIRST YEAR - Semester I				
HIND	100	General Orientation	1	1
FP	100	Food Preparation (Basic)	6	8
SAN	100	Sanitation and Hygiene	3	3
FT	100	Food Products and Standards	4	4
HIND	101	Menu Planning and Food Merchandising	5	5
MATH	110	Mathematics	3	3
ENG	110	Language and Communication	3	3
ACC	102	Bookkeeping and Accounting	3	3
			28	30
Semester II				
FP	100	Food Preparation (Basic)	6	8
HIND	102	Field Experience	3	6
HIND	103	Food Cost Analysis and Control	5	5
HIND	104	Human Relations	2	2
NUT	100	Nutrition and Diets	3	3
ACC	102	Bookkeeping and Accounting	3	3
ENG	111	Language and Communication	3	3
			26	30

Cont'd

NAME OF PROGRAM: FOOD ADMINISTRATION

GBC CODE NO.: F 3

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

SECOND YEAR - Semester I

			Credit Units per Semester:	Periods per Week:
FP	204	Food Preparation (Advanced		
or				
FP	205	Cooking Demonstration Techniques	6	8
HIND	200	Dining Room Service	4	6
HIND	216	Theory of Catering	3	3
HIND	201	Automatic Food Merchandising	3	3
EC	210	Economics 1	3	3
BUS	201	Business Organization and Financing	2	2
EC	103	Business Law	2	2
ENG	210	Communication	3	3
			26	30

Cont'd

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: FOOD ADMINISTRATION

GBC CODE NO.: F 3

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

SECOND YEAR - Semester II

			Credit Units per Semester:	Periods per Week:
HIND	202	Classical Dining Room Service		
or				
BK	200	Quantity Baking & Dessert Preparation	(any two)	
or				
MC	200	Meat Cutting for Food Service Establishments	5	5
or				
FP	201	Testing and Development of Convenience Foods	5	5
HIND	203	Design and Layout of Food Service Establishments	3	3
HIND	215	Types and Uses of Food Service Equipment	2	2
HIND	204	Personnel Management	3	3
HIND	205	Advertising and Promotion in the Hospitality Industry	2	2
HIND	206	Atmosphere and Interior Design	2	2
HIND	207	Innkeeping Law	1	1
FP	203	Introduction to Convenience Foods	3	3
EC	211	Economics 11	3	3
HIND	208	Payroll Analysis and Control	1	1
HIND	209	Beverage Cost and Sales Control	1	1
			31	31

NAME OF PROGRAM: HOTEL-MOTEL ADMINISTRATION

GBC CODE NO.: F 4

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KENSINGTON CAMPUS	2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES: Grade 12

GENERAL INFORMATION:

The growing hotel and motel industry offers a variety of equally interesting career opportunities. Many, possibly the majority of the jobs in the industry involve almost constant contact with the public, and require the sort of personality who can readily adapt to the often demanding situations which may arise. However, there are opportunities as well for the person with an analytical bend of mind. The course delves into all aspects of hotel and motel management, and thus permits the student to become acquainted with the hotel and motel field as a whole, so that he can, upon graduation, decide in which particular area he wants to specialize. Graduates of the course will be able to find employment in the front office, sales, catering, beverage, accounting, personnel, and other departments of hotels and motels, as well as in related areas such as the institutional and restaurant catering field.

Program Contents:

			Credit Units per Semester:	Periods per Week:
FIRST YEAR - Semester I				
HIND	100	General Orientation	1	1
FP	100	Food Preparation (Basic)	6	8
SAN	100	Sanitation and Hygiene	3	3
TF	100	Food Products and Standards	4	4
HIND	101	Menu Planning and Food Merchandising	5	5
MATH	110	Mathematics	3	3
ENG	110	Language and Communication	3	3
ACC	102	Bookkeeping and Accounting	3	3
			28	30
Semester II				
FP	100	Food Preparation (Basic)	6	8
HIND	102	Field Experience	3	6
HIND	103	Food Cost Analysis and Control	5	5
HIND	104	Human Relations	2	2
NUT	100	Nutrition and Diets	3	3
ACC	102	Bookkeeping and Accounting	3	3
ENG	111	Language and Communication	3	3
			25	30

Cont'd

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: HOTEL-MOTEL ADMINISTRATION

GBC CODE NO.: F 4

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

			Credit Units pre Semester:	Periods per Week:
SECOND YEAR - Semester I				
HIND	210	Organization of Hotel Operations	3	3
HIND	211	Front Office Procedures	5	6
HIND	216	Theory of Catering	3	3
FP	206	Beverage Preparation and Service	2	2
HIND	200	Dining Room Service	4	6
BUS	201	Business Organization and Financing	2	2
EC	210	Economics 1	3	3
EC	103	Business Law	2	2
ENG	210	Communication	3	3
			27	30
Semester II				
HIND	212	Hotel Accounting	5	5
HIND	213	Hotel Law	1	1
HIND	204	Personnel Management	3	3
HIND	205	Advertising and Promotion in the Hospitality Industry	2	2
HIND	206	Atmosphere and Interior Design	2	2
HIND	208	Payroll Analysis and Control	1	1
HIND	209	Beverage Cost and Sales Control	1	1
HIND	214	Facilities Design and Layout	4	5
SAN	200	Housekeeping and Maintenance	3	3
FP	203	Introduction to Convenience Foods	3	3
EC	211	Economics 11	3	3
			28	29

NAME OF PROGRAM:	GBC CODE NO.:	
BAKERY TECHNICIAN	OMRP CODE NO.:	

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KENSINGTON CAMPUS	1 YEAR	$160.00	CERTIFICATE

PREREQUISITES: Grade 12, preferably with a knowledge of the Baking Industry or a science background; honours apprenticeship students; or acceptable equivalent.

GENERAL INFORMATION:

This course is designed to give students a broad, deep knowledge of the various techniques employed in the Canadian Baking Industry.

1. The physical and chemical aspects of the baking processes will be stressed as well as their application in production baking.

*2. The courses as described in this program are available from the Extension Program with credits applicable to final certification. Thus, students employed in the baking industry can obtain certification through the Day Release Extension Program.

Program Contents:		Credit Units per Semester	Periods per Week:
SEMESTER I			
BK 134	Bread Making Technology (Day: Tuesday)	6	6
BK 135	Cake Making Technology (Day: Wednesday)	6	6
BK 136	Cookie and Biscuit Technology (Day: Thursday)	6	6
BK 137	Candy and Chocolate Technology (Day: Friday)	6	6
BK 138	Decorating Techniques and Design (Day: Monday)	6	6
		30	30
SEMESTER II			
SAN 130	Sanitation, Hygiene and Micro-biology Techniques (Day: Monday)	6	6
TF 130	Quality Control and Product Development (Day: Tuesday)	6	6
BK 139	Bakery Engineering and Equipment (Day: Wednesday)	6	6
FT 130	Cereal Chemistry and Technology (Day: Thursday)	6	6
BK 140	Bakery Management (Day: Friday)	6	6
		30	30

NAME OF PROGRAM:	GBC CODE NO.:	
BAKERY TECHNICIAN (Cont'd)	OMRP CODE NO.:	

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

* SPECIAL NOTE: Full-time employees in the baking industry may attend any one of the above programs on recommendation of their employers. Each subject is offered on the basis of one day per week, in order to encourage this type of participation.

NAME OF PROGRAM: BAKERY CRAFT COURSES

GBC CODE NO.: F 41

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KENSINGTON CAMPUS	1 YEAR	$160.00	CERTIFICATE

PREREQUISITES: Grade 10 or acceptable equivalent

GENERAL INFORMATION:

*These courses are available for those people who do not qualify for the apprenticeship program, or who do not wish to become apprentices, but wish to obtain knowledge and skills in one or more of the subjects offered.

Program Contents:		Credit Units per Semester	Periods per Week:
BASIC COURSES - SEMESTER I			
BK 15	Bread Craft (Practical)		4
	Bread Craft (Theory) (Tuesdays)		2
BK 17	Cake Craft (Practical)		4
	Cake Craft (Theory) (Wednesdays)		2
BK 18	Cookie Craft (Practical)		3
	Cookie Craft (Theory) (Thursdays)		1
BK 16	Pastry Craft (Practical)		4
	Pastry Craft (Theory) (Mondays)		2
ADVANCED COURSES - SEMESTER II			
BK 25	Bread Craft (Practical)		4
	Bread Craft (Theory) (Tuesdays)		2
BK 26	Cake Craft (Practical)		4
	Cake Craft (Theory) (Wednesdays)		2
BK 27	Pastry Craft (Practical)		4
	Pastry Craft (Theory) (Mondays)		2
BK 19	Decorating Craft (Practical)		3
	Decorating Craft (Theory) (Thursdays)		1

NAME OF PROGRAM: BAKERY CRAFT COURSES (CONT'D)

GBC CODE NO.: F 41

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Students taking any one of these programs will also be expected to complete the following subjects, through the correspondence division of the college, in order to qualify for their certificates.

Sanitation and Hygiene
Mathematics for Bakers
Bakery Management
Nutrition

* SPECIAL NOTE: Full-time employees in the Baking industry may attend any one of these programs on recommendation of their employers. Each subject is offered on a one day per week basis to encourage this type of participation.

NAME OF PROGRAM: CHEF TRAINING (Pre-Employment)

GBC CODE NO.: F 42

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KENSINGTON CAMPUS	40 WEEKS	$160.00	CERTIFICATE

PREREQUISITES: Grade 10

GENERAL INFORMATION:

Graduates of this course will find unlimited opportunities for gainful employment in all areas of the Food Service Industry, including Hotel Kitchens, Restaurants, Institutions, Commercial and Industrial Catering organizations. Evening banquets are considered an essential part of this program. Candidates must be prepared to complete a minimum of 30 banquet hours during the program.

Program Contents:

			Credit Units per Semester:	Periods per Week:
SEMESTER I				
TF	131	Theory of Food	6	6
BK	130	Theory of Baking	1	1
MC	130	Theory of Meat	1	1
HIND	130	Kitchen Management	2	2
FP	130	Quantity Food Preparation, Practical	6	12
BK	132	Practical Baking	1.5	3
MC	132	Practical Meat Cutting	0.5	1
MATH	135	Business Mathematics	2	2
ENG	141	Language and Communication	1	1
NUT	131	Nutrition	1	1
SAN	132	Sanitation, Hygiene and Safety	1	1
			23	31
SEMESTER II				
TF	131	Theory of Food	5	5
BK	130	Theory of Baking	1	1
HIND	130	Kitchen Management	4	4
FP	131	Advanced Quantity Foods	7	14
BK	133	Advanced Baking	1.5	3
MC	132	Practical Meat Cutting	0.5	1
MATH	135	Business Mathematics	1	1
ENG	141	Language and Communication	1	1
MC	130	Theory of Meat	1	1
			22	31

NAME OF PROGRAM: COOK TRAINING (Pre-Apprenticeship)

GBC CODE NO.: F 43

OMRP CODE NO.: 614

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KENSINGTON CAMPUS	20 WEEKS	$60.00	CERTIFICATE

PREREQUISITES: Grade 10, or equivalent

GENERAL INFORMATION:

This course is designed to prepare men and women for a career in professional cooking. Graduates are encouraged to enter the Apprentice Chef Training program and complete the requirements for the Provincial Certificate of Qualification as a Journeyman Chef.

Program Contents:

			Credit Units per Semester:	Periods per Week:
TF	131	Theory of Food	6	6
BK	131	Theory of Baking	1	1
MC	130	Theory of Meat	1	1
HIND	130	Kitchen Management	2	2
FP	130	Quantity Food Preparation Practical	6	12
BK	132	Practical Baking	1.5	3
MC	131	Practical Meat Cutting	0.5	1
MATH	135	Business Mathematics	2	2
ENG	141	Language and Communication	1	1
NUT	131	Nutrition	1	1
SAN	132	Sanitation, Hygiene and Safety	1	1
			23	31

Evening banquets are considered an essential part of the program. Candidates must be prepared to complete a minimum of 30 banquet hours during the program.

NAME OF PROGRAM: RETAIL MEAT CUTTING-BUTCHERY

GBC CODE NO.: F 44

OMRP CODE NO.: 642

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KENSINGTON CAMPUS	20 WEEKS 1 Semester; Sept. 1970 & 1st Mon. of each month	$60.00	CERTIFICATE

PREREQUISITES: Grade 10, of any four-year program. High standard of personal hygiene and be willing to take a complete medical examination which is administered by the Health Centre at the College.

GENERAL INFORMATION:

Professional meat cutters are employed by the following organizations: independent meat stores, chain store meat departments, hotel and restaurant portion control supply houses, home freezer supply houses and catering organizations. Graduates of this course, because of their skill and immediate value to an employer, will experience little difficulty in finding an employer of their choice.

Program Contents:			Credit Units per Semester:	Periods per Week:
MC	133	Practical Meat Cutting	7.5	15
MC	134	Trade Theory	6	6
HIND	136	Business Procedure	2	2
SAN	131	Sanitation and Hygiene	2	2
NUT	130	Foods and Nutrition	2	2
MATH	135	Business Mathematics	2	2
ENG	141	Language and Communication	1	1
			22.5	30

NAME OF PROGRAM: BAKING APPRENTICE

GBC CODE NO.: F 45

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KENSINGTON CAMPUS	Basic: 15 weeks Advanced:" "		CERTIFICATE

PREREQUISITES: Length of Apprenticeship Term:
2 periods of 2,000 hours each

GENERAL INFORMATION:

This course is designed to give students a broad knowledge of the baking industry, giving them a knowledge and the skills to enable graduates to work in small bakeries, in-store bakeries, hotel and restaurant bakeries and pastry departments, hospital bakeries, and positions in plant bakeries.

The courses as described in this program are available from the Extension Program with credits applicable to final certification. Thus, students employed in the baking industry can obtain certification through the Day Release Extension Program.

Program Contents:			Credit Units per Semester:	Periods per Week:
BASIC				
BK	15	Bread Craft (Basic)	4	6
BK	17	Cake Craft (Basic)	4	6
BK	18	Cookie Craft	2.5	4
BK	16	Pastry Craft (Basic)	4	6
BK	11	Related Theory	3	3
MATH	11	Mathematics	2	2
ENG	11	English	1	1
BK	10	Theory of Baking	2	2
			22.5	30
ADVANCED				
BK	25	Bread Craft (Advanced)	4	6
BK	26	Cake Craft (Advanced)	4	6
BK	27	Pastry Craft (Advanced)	4	6
BK	19	Decorating Craft	2.5	4
BK	21	Related Theory	3	3
MATH	21	Mathematics	2	2
ENG	21	English	1	1
BK	20	Theory of Baking	2	2
			22.5	30

NAME OF PROGRAM: CHEF TRAINING - Apprentice

GBC CODE NO.: F 46

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KENSINGTON CAMPUS	Basic: 15 weeks Advanced: "		CERTIFICATE

PREREQUISITES: LENGTH OF APPRENTICESHIP: 3 periods of 2,000 hours

GENERAL INFORMATION:

Program Contents:			Credit Uints per Semester:	Periods per Week:
BASIC				
TF	10	Theory of Food	6	6
BK	13	Theory of Baking	1	1
MC	10	Theory of Meat	1	1
HIND	10	Kitchen Management	2	2
FP	10	Quantity Food Preparation, Practical	6	12
MC	11	Practical Meat Cutting	0.5	1
BK	14	Practical Baking	1.5	3
MATH	11	Mathematics	2	2
ENG	11	English	1	1
NUT	11	Nutrition	1	1
SAN	11	Sanitation, Hygiene and Safety	1	1
			23	31
ADVANCED				
TF	20	Theory of Food	5	5
BK	23	Theory of Baking	1	1
HIND	20	Kitchen Management	4	4
FP	20	Advanced Quantity Foods	7	14
BK	24	Advanced Baking	1.5	3
MC	20	Meat Cutting	0.5	1
MATH	21	Mathematics	1	1
ENG	21	English	1	1
MC	21	Theory of Meat	1	1
			22	31

Evening banquets are considered an essential part of this course. All students will be expected to complete a minimum of 30 banquet hours per semester.

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: RETAIL MEAT CUTTING & BUTCHERY (Apprentice)

GBC CODE NO.: F 47

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KENSINGTON CAMPUS	One 15 wk. course at the beginning of the Apprenticeship T.		CERTIFICATE

PREREQUISITES: LENGTH OF APPRENTICESHIP TERM: 2 periods of 2,000 hours

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods per Week:
MC	12	Practical Meat Cutting	7.5	15
MC	13	Trade Theory	6	6
HIND	11	Business Procedure	2	2
SAN	10	Sanitation and Hygiene	2	2
NUT	10	Foods and Nutrition	2	2
MATH	11	Mathematics	2	2
ENG	11	English	1	1
			22.5	30

NAME OF PROGRAM: DINING ROOM SERVICE

GBC CODE NO.: F 70

OMRP CODE NO.: 420

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KENSINGTON CAMPUS	10 WEEKS	$30.00	CERTIFICATE

PREREQUISITES: Grade 10 Preference

GENERAL INFORMATION:

Graduates have ample opportunity to select positions from a variety of establishments in the Food Service Industry. Many hotel dining rooms, clubs, railway dining cars, and motels employ only trained personnel or graduates of recognized courses. Many graduates have entered the industry directly as junior managers with restaurant chains. Others find employment in institutions which permit advancement to the positions of captain, maitre d'hotel, assistant manager, manager, hostess or manageress.

Program Contents:

			Credit Units per Semester:	Periods per Week:
HIND	132	Theory of Dining Room Service	2.5	5
HIND	133	Table Service	5	15
TF	133	Theory of Food	3	6
HIND	134	French Service	0.5	2
HIND	135	Beverage Service	0.5	2
			11.5	30

* Prospective candidates should be well-motivated, have a pleasing personality and a good personal appearance.

** Evening banquet service is considered an essential part of the practical training program. Candidates must be prepared to complete a minimum of 30 banquet hours during the program.

NAME OF PROGRAM: GRAPHIC ARTS

GBC CODE NO.: G1

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	3 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES: Grade 12, or Grade 10 with success in High School Printing Courses of Grade 11 or 12 or Industrial experience.

GENERAL INFORMATION:

The Graphic Arts Industry plays an important role in the economy of the Province of Ontario and the City of Toronto in particular. It is experiencing continuous growth within the College environment, the instruction, equipment and facilities provided enable students to achieve up-to-date proficiency in all phases of operation. Those who enter the printing profession from these programs will be versatile enough to meet the challenge of technological change in the next decade.

Program Contents:

			Credit Units per Semester:	Periods per Week:
FIRST YEAR		Semester I		
GR	100	Layout, Design, Typography	1.5	2
GR	101	Hot Metal Composition	2	3
GR	105	Photomechanical Reproduction	3	4
GR	110	Film Imposition and Printing Surface Preparation	1.5	2
GR	115	Machine Printing (Letter Press)	2	3
GR	116	Machine Printing (Offset)	3.5	5
GR	125	Binding and Finishing	2	3
PHYS	105	Physics	3	3
MATH	105	Mathematics	3	3
ENG	100	English	2	2
			23.5	30

NAME OF PROGRAM:	GBC CODE NO.: G1
GRAPHIC ARTS Cont'd..	OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

			Credit Units per Semester:	Periods per Week:
FIRST YEAR		Semester II		
GR	100	Layout, Design, Typography	1.5	2
GR	101	Hot Metal Compostiion (Monotype)	2	3
GR	105	Photomechanical Reproduction	3	4
GR	110	Film Imposition and Printing Surface Preparation	1.5	2
GR	115	Machine Printing (Letter Press)	2	2
GR	116	Machine Printing (Offset)	3.5	5
GR	125	Binding and Finishing	2	3
CHEM	105	Chemistry	3	3
MATH	105	Mathematics	3	3
ENG	100	English	2	2
			23.5	30
SECOND YEAR		Semester I		
GR	200	Photo Composition (including Monotype and Friden Keyboarding)	2	3
GR	205	Photomechanical Reproduction	2	3
GR	210	Film Imposition and Printing Surface Preparation	1.5	2
GR	215	Machine Printing (Flexo)	3.5	5
GR	216	Machine Printing (Offset)	2.5	4
GR	225	Binding and Finishing	2.5	3
GR	220	Quality Control	1.5	2
ELTC	214	Electronics	2.5	3
MATH	205	Mathematics	3	3
ENG	200	English	2	2
			23	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM:	GBC CODE NO.: G1
GRAPHIC ARTS Cont'd..	OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

			Credit Units per Semester:	Periods per Week:
SECOND YEAR		Semester II		
GR	200	Photo Composition	2	3
GR	205	Photomechanical Reproduction	2	3
GR	210	Printing Surface Preparation (etching copper plate using carbon tissue or Roto-film for Gravure) Step and Repeat	1.5	2
GR	220	Quality Control	1.5	2
GR	215	Machine Printing (Rotogravure)	3.5	5
GR	216	Machine Printing (2 color offset)	2.5	4
GR	225	Binding and Finishing	2.5	3
ELTC	214	Electronics	3	3
MATH	205	Mathematics	3	3
ENG	200	English	2	2
			23	30

NAME OF PROGRAM:	GBC CODE NO.: G1
GRAPHIC ARTS Cont'd..	OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents: Credit Units per Semester: Periods per Week:

THIRD YEAR/TECHNICAL OPTION

Specialisation in one of the following:

Type Composition (hot and cold)
Color Reproduction and Stripping Procedures
Machine Printing (Rotogravure, Flexo, two-color offset)
Binding and Finishing
Quality Control and Statistics

In addition, related studies in one or more of the following: Humanities (including studies of Trade Union Movement, Industrial Psychology, and Personnel Relations); Science, Electronics, and Business Administration work, using various approaches, including writing and thesis.

NAME OF PROGRAM:	GBC CODE NO.: G2
GRAPHIC DESIGN TECHNICIAN	OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
COLLEGE STREET CAMPUS	2 YEARS (optional 3rd yr)	$160.00 per year	DIPLOMA

PREREQUISITES: Grade 12 Ontario, or equivalent; Mature students over 19 years of age may be accepted with less academic qualifications. All must submit a portfolio of 5 to 10 work samples before being approved.

GENERAL INFORMATION:

Metropolitan Toronto is Canada's largest centre for opportunities in advertising art and graphic design. For over four years we have been placing a very high percentage of graduates in studios, both large and small in Toronto area. Being associated with the country's largest printing technical department, provides opportunity for on-the-job situation for the student to have samples of his work from the design sketch to finished art work to printed samples.

Program Contents:

			Credit Units per Semester:	Periods per Week:
FIRST YEAR				
		Semester I		
GD	100	Foundation Drawing	4	6
GD	101	Life Drawing	2.5	4
GD	102	Alphabet-lettering	2	3
GD	103	Foundation Design	4	6
GD	104	Foundation Colour	1.5	2
GD	105	Foundation Techniques (ROM)	2	3
GD	106	Foundation Mechanicals	3	4
GD	107	Foundation History of Art	2	2
			21	30

NAME OF PROGRAM: GRAPHIC DESIGN TECHNICIAN Cont'd..

GBC CODE NO.: G2

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

			Credit Units per Semester:	Periods per Week:
FIRST YEAR				
		Semester II		
GD	100	Foundation Drawing	2	3
GD	101	Life Drawing	4	7
GD	102	Alphabet-lettering	3	4
GD	103	Foundation Design	4	6
GD	105	Foundation Techniques (ROM)	3	4
GD	106	Foundation Mechanicals	3	4
GD	107	Foundation History of Art	2	2
			21	30
SECOND YEAR				
		Semester I		
GD	203	Graphic Design	3	5
GD	206	Graphic Mechanicals	2.5	4
GD	210	Packaging Design	2	3
GD	208	Packaging Mechanicals	2	3
GD	202	Alphabet Typography	2.5	4
GD	205	Graphic Techniques	2	3
GD	201	Illustration	2	3
GD	207	Historial Research	2	2
GD	209	Life Painting & Drawing	2	3
			20	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: GRAPHIC DESIGN TECHNICIAN Cont'd..

GBC CODE NO.: G2

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

			Credit Units per Semester:	Periods per Week:
SECOND YEAR				
		Semester II		
GD	203	Graphic Design	3	5
GD	206	Graphic Mechanicals	2.5	4
GD	210	Packaging Design	2.5	4
GD	208	Packaging Mechanicals	2	3
GD	202	Alphabet Typography	2	3
GD	205	Graphic Techniques	2.5	4
GD	201	Illustration	1.5	2
GD	201	Historial Research	2	2
GD	204	Life Painting and Drawing	2	3
			20	30

THIRD YEAR

An optional third year covering advanced techniques and specialities will be offered.

NAME OF PROGRAM: SCREEN PRINTING

GBC CODE NO.: G40

OMRP CODE NO.: 633

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	40 WEEKS	$120.00	CERTIFICATE

PREREQUISITES: Grade 10 Ontario or equivalent. Mature students with aptitude as assessed by the instructor may be accepted with lower academic standing.

GENERAL INFORMATION:

Screen printing is a rapidly growing segment of the specialized printing industries. Plastic, glass and metal surfaces; packaging, textiles, and wallpapers; signs and advertising posters and printed circuits are all produced by this process. Those with artistic and mechanical aptitude do particularly well at this work.

Program Contents:			Credit Units per Semester:	Periods per Week:
SP	126	Basic Principles of Layout, Design and Typography	2	3
SP	127	Photomechanical Reproduction (Line, Halftone, Basic Process Color-reproduction)	2	3
SP	128	Film Imposition, Stencil Cutting and Screen Preparation	3	5
SP	129	Manual and Mechanized Screen Printing Paper and Board	4.5	7
SP	130	Mechanized Screen Printing (Other Substrates such as Plastics, glass, wood, metal, cloth, self adhesive films)	3	5
MATH	134	Mathematics	3	3
ENG	130	Language and Communication	2	2
PHYS	139	Applied Science: (Color, Color Viewing, Substractive-Process, Optical-Laws, Fluorescence, Paper, Ink, Solvent, Coatings, Plastics)	2	2
			21.5	30

NAME OF PROGRAM: OFFSET PRINTING

GBC CODE NO.: G42

OMRP CODE NO.: 810

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	40 WEEKS	$120.00	CERTIFICATE

PREREQUISITES: Grade 10 or acceptable equivalent of industrial experience.

GENERAL INFORMATION:

This short technical program is designed to train an Offset Pressman in the operation of various types of small Offset Presses likely to be encountered in captive plants or small printing shops. Understanding the fundamentals of Typesetting, Line and Halftone Reproduction, Printing Surface Prepartion, Binding and Finishing as well as press operation will enable the recipient of this course to obtain optimum results from the equipment available at an employer's print shop.

Program Contents:			Credit Units per Semester:	Periods per Week:
GR	130	Hand Composition, Ludlow, Repro-proff press	3	4
GR	134	Reproduction (Line and Halftone)	1.5	2
GR	136	Film Imposition and Printing Surface Preparation	2	3
GR	138	Machine Printing (Letter-Press)	3	4
GR	140	Machine Printing (Offset)	7	9
GR	142	Binding and Finishing	1.5	2
GR	134	Mathematics	2	2
GR	130	English	2	2
GR	139	Physics and Chemistry	2	2
			24	30

NAME OF PROGRAM: COMMERCIAL ART AND SIGNWRITING

GBC CODE NO.: G43

OMRP CODE NO.: 613

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
COLLEGE STREET CAMPUS	40 WEEKS	$120.00	CERTIFICATE

PREREQUISITES:

Grade 10 Ontario, or equivalent and mature students over 19 years of age may be accepted with lower academic standing. All must submit a portfolio of 5 to 10 samples before acceptance, or pass an entrance test.

GENERAL INFORMATION:

A large number of graduates from this course have been placed as junior artists and designers in many of Metropolitan Toronto's Commercial Art Studios, Advertising Agencies, Company Advertising Departments, Printing Specialty Houses and Departmental stores.

Program Contents:

			Credit Units per Semester:	Periods per Week:
		Semester I		
GD	100	Foundation Drawing	4	6
GD	101	Life Drawing	2.5	4
GD	102	Alphabet Lettering	2	3
GD	103	Foundation Design	4	6
GD	104	Foundation Color	1.5	2
GD	105	Foundation Techniques (ROM)	2	3
GD	106	Foundation Mechanical	3	4
GD	107	Foundation History of Art	2	2
			21	30
		Semester II		
GD	100	Foundation Drawing	2	3
GD	101	Life Drawing	4	7
GD	102	Alphabet Lettering	3	4
GD	103	Foundation Design	4	6
GD	105	Foundation Techniques (ROM)	3	4
GD	106	Foundation Mechanicals	3	4
GD	107	Foundation History of Art	2	2
			21	30

NAME OF PROGRAM: OFFSET PRINTING FOR LETTERPRESSMAN

GBC CODE NO.: G70

OMRP CODE NO.: 844

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	12 WEEKS	$36.00	CERTIFICATE

PREREQUISITES:

Sufficient experience as a Letter-Press Journeyman.

GENERAL INFORMATION:

This course is designed to meet the specific needs of the Graphic Arts Industry to retrain Letter Press Journeyman for Offset Pressmanship and Offset Plate making. Although this program is short, it is very intensive and it provides adequate practical experience on a variety of medium and large size single color Offset Presses. Basic plant making procedures are included.

Program Contents:

			Credit Units per Semester:	Periods per Week:
GR	900	Machine Printing (Offset)	16	27
GR	905	Offset Lithography Fundamentals	2	3
			18	30

NAME OF PROGRAM: VARITYPE OPERATOR

GBC CODE NO.: G71

OMRP CODE NO.: 648

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
COLLEGE STREET CAMPUS	16 WEEKS	$48.00	CERTIFICATE

PREREQUISITES: Grade 10 or equivalent and 40 wpm typing

GENERAL INFORMATION:

This course has been designed to familiarize the student with the operation of the Varitype Machine and its use and application in the Cold Type Industry. Upon graduation students can anticipate employment in Cold Type Composition Houses, Advertising Agencies, Printing and Engineering firms, Insurance firms, Government offices, and Foreign Language newspaper offices.

Program Contents:			Credit Units per Semester:	Periods per Week:
ENG	141	Language and Communication	5	5
VAR	144	Varityping	16	25
			21	30

NAME OF PROGRAM: PHOTO COMPOSITION AND PASTE-UP ASSEMBLY FOR TYPOGRAPHERS

GBC CODE NO.: G72

OMRP CODE NO.: 704

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	12 WEEKS	$36.00	CERTIFICATE

PREREQUISITES: Journeyman status as a Typographer, an aptitude for careful accurate handwork and the ability to visualize the finished product at the paste-up stage. Mechanical aptitude and ability to learn basic Bindary Logic as measured by IBM data processing test.

GENERAL INFORMATION:

A survey of the Printing Industry by the Toronto Typographical Union indicates this is an area of increasing demand as the industry converts to new techniques in composition and printing methods.

Program Contents:			Credit Units per Semester:	Periods per Week:
TYP	900	Lumisonic Typing	3	60
GR	951	Tape-Keyboarding	3	60
GR	952	Tape-Processing	1.5	30
GR	953	Maintenance of Photo-Typesetting Equipment	8	124
GR	954	Paste-Up Assembly	5	86
			20.5	360

NAME OF PROGRAM: PHOTO REPRODUCTION FOR TYPOGRAPHERS

GBC CODE NO.: G73

OMRP CODE NO.: 702

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	12 WEEKS	$36.00	CERTIFICATE

PREREQUISITES: Journeyman Typographer and aptitude for camera work

GENERAL INFORMATION:

This is one of the main areas where there is a growing demand in the Printing Industries. Graduates will be trained as Black and White, Line and Half-Tone Process Camera men.

Program Contents:			Credit Units per Semester:	Periods per Week:
GR	961	Photo Reproduction-Theory	7	10
GR	962	Photo Reproduction-Practical	11	20
			18	30

NAME OF PROGRAM: FILM ASSEMBLY & PRINTING SURFACE PREPARATION FOR TYPOGRAPHERS

GBC CODE NO.: G74

OMRP CODE NO.: 703

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
TERAULAY CAMPUS	12 WEEKS	$36.00	CERTIFICATE

PREREQUISITES: Journeyman Typographer with aptitude for accurate careful hand work and the ability to visualize the finished product at the film stripping stage.

GENERAL INFORMATION:

This is one of the main areas where there will be an increasing demand in the Printing Industry as it converts from Letterpress to Offset Press techniques. Graduates will be trained in film-stripping and platemaking, including process color work.

Program Contents:			Credit Units per Semester:	Periods per Week:
GR	971	Stripping and Platemaking -Theory	7	10
GR	972	Stripping and Platemaking -Practical	11	20
			18	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM:	GBC CODE NO.: M 1
MARINE ENGINEERING CADET	OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	3 year six semesters, 12 mo. supervise experience	$160.00 per year	DIPLOMA

PREREQUISITES: Grade 12

GENERAL INFORMATION:

Successful graduates may be employed as Junior Engineer Officers on ships of the companies who sponsor this program. Field trips are arranged during the school period to familiarize cadets with procedures in machine shops and ships.

At the end of the three-year program students may write the examinations of the Federal Department of Transport for a Fourth Class combined certificate. In addition, they may be exempted from the Academic portions of further examinations in both the 2nd class and 1st class certificates, providing their studies and final college examinations are approved by the Department of Transport.

Program Contents:			Credit Units per Semester:	Periods per Week:
	SEMESTER 1			
EN	103	Applied Heat	1	
EN	105	Applied Mechanics	1	
EN	109	Metallurgy	2	
DR	157	Drawing	2	
EL	121	Electrotechnology	1	
MACH	124	Machine Shop	2	
MAR	111	Ship Construction	1	
MATH	103	Mathematics	1	
CHEM	121	Chemistry	1	
ENG	103	English	1	
			13	
	SEMESTER 11			
EN	110	Metallurgy	1	
EN	101	Engineering Practice	2	
EN	104	Applied Heat	1	
EN	106	Applied Mechanics	2	

Cont'd....

NAME OF PROGRAM: MARINE ENGINEERING CADET Cont'd..

GBC CODE NO.: M 1

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

			Credit Units per Semester:	Periods per Week:
	SEMESTER 11			
DR	114	Drafting	2	
EL	122	Electrotechnology	1	
MACH	125	Machine Shop	2	
MATH	104	Mathematics	1	
CHEM	122	Chemistry	1	
			13	
	SEMESTER 111			
EN	201	Engineering Practice	2	
EN	203	Thermodynamics	2	
EN	205	Applied Mechanics	1	
EN	207	Strength of Materials	1	
MAR	110	Ship's Business	1	
DR	223	Drafting	1	
EL	221	Electrotechnology	1	
MACH	221	Machine Shop	2	
MATH	203	Mathematics	1	
			12	

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: MARINE ENGINEERING CADET Cont'd..

GBC CODE NO.: M 1

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:

			Credit Units per Semester:	Periods per Week:
	SEMESTER 1V			
EN	202	Engineering Practice	2	
EN	204	Thermodynamics	2	
EN	206	Applied Mechanics	1	
EN	210	Mechanics of Fluids	1	
EN	208	Strength of Materials	1	
DR	224	Drafting	1	
EL	222	Electrotechnology	1	
MACH	222	Machine Shop	2	
MATH	204	Mathematics	1	
			12	
	SEMESTER V			
EN	301	Engineering Practice	2	
EN	303	Thermodynamics	2	
EN	305	Theory of Machines	2	
EN	311	Naval Architecture	1	
EN	313	Strength of Materials	1	
EN	307	Mechanics of Fluids	1	
EL	321	Electrotechnology	1	
WELD	10/11	Welding	1	
WELD	20/21	Welding	1	
MATH	303	Mathematics	1	
			13	

NAME OF PROGRAM: MARINE ENGINEERING CADET Cont'd..

GBC CODE NO.: M 1

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods per Week:
	SEMESTER VI			
EN	302	Engineering Practice	2	
EN	304	Thermodynamics	2	
EN	309	Strength of Materials	1	
EN	306	Theory of Machines	2	
EN	308	Mechanics of Fluids	2	
EN	312	Naval Architecture	1	
EL	322	Electrotechnology	1	
MATH	304	Mathematics	1	
			12	

NAME OF PROGRAM: NAVIGATION OFFICER CADET

GBC CODE NO.: M 2

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
CASA LOMA CAMPUS	3 1/2 YEARS	$160.00 per year	DIPLOMA

PREREQUISITES: Grade 12 Diploma.

GENERAL INFORMATION:

All applications for this course must be accompanied by a Department of Transport Certificate attesting to a minimum vision of 20/20 and to normal colour perception.

It will be possible for cadets to write the Second Mate Foreign-Going Certificate and in addition, First Mate's Home Trade Certificate at the end of the three and a half years of training, provided that the sea service is approved.

Program Contents:			Credit Units per Semester:	Periods per Week:
FIRST YEAR				
MAR	100	Shop Knowledge	6	6
MAR	101	Magnetism	1	2
MAR	102	Chart Projection	4	4
MATH	102	Mathematics	4	4
DR	117	Drafting	1	2
MAR	105	Meteorology	2	2
PHYS	102	Physics	4	4
ENG	101	English	1	2
EL	123	Electrotechnology	3	4
			26	30

NAME OF PROGRAM: NAVIGATION OFFICER CADET Cont'd..

GBC CODE NO.: M 2

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods per Week:
SECOND YEAR				
MAR	200	Naval Architecture	4	4
CHEM	121	Chemistry	2	2
MAR	201	Seamanship	4	6
MAR	202	Ship's Business	1	2
MATH	202	Mathematics	4	4
MAR	203	Navigation	4	4
PHYS	201	Physics	4	4
EL	104	Electrical Fundamentals	3	4
			26	30
THIRD YEAR				
MAR	300	Naval Architecture	4	4
EL	204	Electrotechnology	3	4
MAR	301	Seamanship	4	4
MATH	302	Mathematics	4	4
MAR	308	Engineering Knowledge	1	2
MAR	303	Navigation	4	4
MAR	304	Meteorology	1	2
MAR	306	Magnetism	1	2
MAR	307	Chart Projection	4	4
			26	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: NAVIGATION OFFICER CADET Cont'd..

GBC CODE NO.: M 2

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:			Credit Units per Semester:	Periods per Week:
FOURTH YEAR				
MAR	404	Chart Projection	4	4
MAR	400	Naval Architecture	4	4
MAR	401	Seamanship	6	6
MATH	402	Mathematics	4	6
MAR	403	Navigation	5	6
EL	304	Electrotechnology	3	4
			26	30

NAME OF PROGRAM:		GBC CODE NO.: M(T) M-40,M-41	
MARINE TUTORIAL COURSES		OMRP CODE NO.: 631-632	
LOCATION:	LENGTH: 15 WEEKS	FEES:	CERTIFICATION:
PREREQUISITES:			

GENERAL INFORMATION:

Courses are offered which prepare qualified seamen for Department of Transport Certificates of Competency in all grades, as Marine Engineers or as Mates and Masters of ships in the inland and minor waters of Canada, home trade waters and foreign-going service.

The minimum age specified by Department of Transport regulations for holders of Certificates of Competency is 20 years. A qualifying period of sea service of 3 years is also required.

Opportunities for advancement are good in the Marine field as modern and larger vessels are built for the Merchant service. A Canadian Coastguard is also being formed, with new vessels for government service.

Program Contents: Credit Units per Semester: Periods per Week:

SPECIAL MARINE COURSES:

Marine Engineers M 40-OMRP 631
Length of course: 15 weeks
MARINE ENGINEERING
Mathematics applicable to Engineering Problems, Boilers, Steam and Diesel Engines, Metals, Gases, Theory of Propulsion, Drafting, Combustion in Marine Engines, and Elementary Machine Shop Practice.

Marine Navigation Officers M 41-OMRP 632
Length of Course: 15 weeks

NAVIGATION

Seamanship, Ship Stability and Construction, Magnetism and Magnetic Compass, Chartwork, Electronic aids to navigation: Radar, gyro-compass, echo sounder, direction finder and Decca Navigator equipment.

RADAR SIMULATOR

This is a realistic course in which navigation situations, involving up to five targets travelling on different courses at different speeds.

NAME OF PROGRAM:		GBC CODE NO.: M (T) M-40, M-41	
MARINE TUTORIAL COURSES Cont'd..		OMRP CODE NO.:	
LOCATION:	LENGTH:	FEES:	CERTIFICATION:
PREREQUISITES:			

GENERAL INFORMATION:

Program Contents: Credit Units per Semester: Periods per Week:

RADAR SIMULATOR Cont'd

can be made to appear on the radar screen. It is a practical course wherein collision situations are set up and the student is given the opportunity of handling a vessel by simulation. Anti-collision exercises afford realistic training. This is a one-week course.

RADAR OBSERVER

This course covers the principles of radar, adjustment of operational controls, practical starting and stopping equipment, interpretation of the display (including topography ashore as well as conspicuous objects afloat), factors affecting echo characteristics and false echoes, detection of movement plotting both relative and true, and working examples of plots containing fixed and moving targets with speed and course alterations. This course is combined with the Radar Simulator course. The duration is 3 weeks with 2 weeks devoted to Radar Observer or Theory and one week devoted to Radar Simulator or Practical.

A certificate of satisfactory attendance is given on completion of the Radar Simulator course. An endorsement is obtainable on examination by the Department of Transport after completion of the Radar Observer's course.

NAME OF PROGRAM:	GBC CODE NO.: M (C)
CORRESPONDENCE COURSES	OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

The College offers correspondence courses dealing with the Department of Transport requirements for the various certificates of competency. Each course, which consists of 15 to 30 lessons, covers a subject area in a particular grade. They contain assignments which, upon completion, are to be sent to the College for marking.

Application forms for the courses may be obtained from the Registrar's Office. The fee is $30.00 per subject and is payable by money order or cheque, to be made payable to George Brown College. Do not send cash.

The following is a list of the 31 courses available:

Program Contents:	Credit Units per Semester:	Periods per Week:

MARINE DECK OFFICERS

Second Mate Foreign-Going
FE 1 Electronic and Other Aids to Navigation

Second Mate Home Trade
HN 1 Navigation
HE 1 Electronic and Other Aids to Navigation
HC 1 Chartwork and Pilotage

First Mate Home Trade
HN 2 Navigation
HS2(A) Elementary Shipboard Knowledge (1)
HS2(B) Elementary Shipboard Knowledge (2)
HE2 Electronic and Other Aids to Navigation
HC2 Chartwork and Pilotage

Second Mate Inland Waters
1C1 Chartwork and Pilotage
1E1 Electronic and Other Aids to Navigation

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM:	GBC CODE NO.: M (C)
CORRESPONDENCE COURSES Cont'd..	OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:

PREREQUISITES:

GENERAL INFORMATION:

Program Contents:	Credit Units per Semester:	Periods per Week:

First Mate Inland Waters
1C2 Chartwork and Pilotage
1S2(A) Elementary Shipboard Knowledge (1)
1S2(B) Elementary Shipboard Knowledge (2)
1E2 Electronic and Other Aids to Navigation

MARINE ENGINEERING OFFICERS

4th Class
4G Engineering Knowledge General
4S Engineering Knowledge Steam
4M Engineering Knowledge Motor

3rd Class
3PM Practical Mathematics
3G Engineering Knowledge General
3M Engineering Knowledge Motor
3S Engineering Knowledge Steam

2nd Class
2MA Mathematics
2AM Applied Mathematics
2H Heat and Heat Engines
2NA Naval Architecture
4SE Stationary Engineer 4th Class
3SE Stationary Engineer 3rd Class
2G Engineering Knowledge General

1st Class
1N Heat and Heat Engines
1AM Applied Mechanics

NAME OF PROGRAM:	GBC CODE NO.:	OMRP CODE NO.:
CREATIVE FASHION	ST 1	

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
COLLEGE STREET CAMPUS	2 YEARS	$160.00	DIPLOMA

PREREQUISITES: Grade 12 or equivalent and Instructor's evaluation.

GENERAL INFORMATION:

This course is designed to develop the creativity of the student in fashion disciplines culminating in original styles, patterns and finished garments for the women's fashion and fur industries.

Draping and pattern design; fur recognition; manufacturing techniques; care, maintenance and marketing of wild and ranched furs; business management; merchandising; production machines; and couture sewing.

Program Contents: YEAR 1 (2 Semesters)			Credit Units per Semester:	Periods per Year:
SEW	141	Power Sewing		135
DRES	141	Couture Dressmaking		225
DRES	141	Textiles		90
FUR	143	Fur Theory		200
FUR	144	Fur Manufacturing		105
PAT	141	Pattern Drafting		175
PAT	142	Draping		20
PAT	143	Design		50
PAT	144	Grading		50
SBM	132	Small Business Management		110
ENG	132	English		40
				1200

YEAR 11 (2 Semesters)	Hours per Week
Specialization in one of:	
Dressmaking, Pattern Design or Fur Business	25
Related Subjects	5
	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: GARMENT PATTERN-MAKING and DESIGN

GBC CODE NO.: ST 40

OMRP CODE NO.: 624

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
COLLEGE STREET CAMPUS	16 WEEKS	$48.00	CERTIFICATE

PREREQUISITES: Open

GENERAL INFORMATION:

This course is designed to train graduates for entry into the following fields of employment: Garment Trade Industries; Boutique Shops; Stylist (fashion photography); Costume Designer.

Program Contents:			Credit Units per Semester:	Periods per week:
PAT	141	Pattern Drafting		16
PAT	142	Draping		2
PAT	143	Design		5
PAT	144	Grading		2
ENG	141	Language and Communication		5
				30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: DRESSMAKING and ALTERATIONS

GBC CODE NO.: ST 41

OMRP CODE NO.: 616

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
COLLEGE STREET CAMPUS	20 WEEKS	$60.00	CERTIFICATE

PREREQUISITES: Grade 8 or equivalent

GENERAL INFORMATION:

This is a practical course designed for those wishing to find employment in the following branches of the industry:

Custom Dressmaking, Finishing, Related fields, Alterations, Sales (textiles, boutiques, etc.)

Program Contents:			Credit Units per Semester:	Periods per Week:
DRES	141	Dressmaking and Alterations		25
ENG	141	Language and Communication		5
				30

NAME OF PROGRAM:	GBC CODE NO.:	OMRP CODE NO.:
POWER SEWING	ST 42	639

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
COLLEGE STREET CAMPUS	24 WEEKS	$72.00	CERTIFICATE

PREREQUISITES: Open

GENERAL INFORMATION:

This course is designed to provide the student with the basic sewing skills and techniques as used in the garment manufacturing industries.

Program Contents:			Credit Units per Semester:	Periods per Week:
SEW	141	Industrial Power Sewing		25
ENG	141	Language and Communication		5
				30

NAME OF PROGRAM:	GBC CODE NO.:	OMRP CODE NO.:
FUR BUSINESS and MANUFACTURING TECHNIQUES	ST 43	1107

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
COLLEGE STREET CAMPUS	40 WEEKS (2 Semesters)	$120.00	CERTIFICATE

PREREQUISITES: Grade 10 or test

GENERAL INFORMATION:

For the first time in Canada this program will give men and women an integrated course on fur; will develop in them skills in, and knowledge of the industry and its materials, techniques and products; will equip them for gainful employment by standardizing general and technical fur knowledge in such a way that they will be able to work profitably in any division in the fur industry and in some other trades where fur is used.

Program Contents:			Credit Units per Semester:	Periods per Week:
FIRST YEAR		Semester 1		
FUR	143	Fur Theory		14
FUR	144	Fur Manufacturing		9
ENG	132	Language and Communication		2
SBM	132	Small Business Management		5
				30
		Semester 11		
FUR	145	Fur Fashion and Design		12
FUR	144	Fur Manufacturing		9
SBM	132	Small Business Management		5
FUR	147	Fur Marketing		2
ENG	132	Language and Communication		2
				30

NAME OF PROGRAM:	GBC CODE NO.: ST 52
FURNITURE REFINISHING and REPAIR	OMRP CODE NO.: 622

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
COLLEGE STREET CAMPUS	32 WEEKS	$96.00	CERTIFICATE

PREREQUISITES: Grade 8 or equivalent

GENERAL INFORMATION:

This course is designed to prepare the student for entry into the following branches of the furniture industry:

Furniture Repairing, Furniture Making, Furniture Refinishing, Furniture Finishing.

Program Contents:			Credit Units per Semester:	Periods per Week:
FURN	152	Furniture Refinishing and Repair		25
MATH	134	Mathematics		5
				30

NAME OF PROGRAM:	GBC CODE NO.: ST 53
FURNITURE UPHOLSTERY and REPAIR	OMRP CODE NO.: 623

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
COLLEGE STREET CAMPUS	40 WEEKS	$120.00	CERTIFICATE

PREREQUISITES: Open

GENERAL INFORMATION:

This course is designed to develop enough skills to enable the graduate to find employment in any of the following branches of the upholstering industry:

Custom Upholstering, Recovering, Production Upholstering, Springing.

Program Contents:			Credit Units per Semester:	Periods per Week:
FURN	153	Furniture Upholstery and Repair		30

NAME OF PROGRAM: BARBERING

GBC CODE NO.: ST 70

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KENSINGTON CAMPUS	18 WEEKS	SPONSORED	CERTIFICATE

PREREQUISITES: Accepted as a registered apprentice in the Barbering Trade

GENERAL INFORMATION:

This course has been designed to meet the requirements of the Ontario Government program for apprenticeship training. The aims are to provide instruction in the theory and practices as will be acceptable to the Barbering Trade. With the hopeful addition of Men's Hairstyling to the course, training in all phases of this trade should be complete.

Program Contents:			Credit Units per Semester:	Periods per Week:
BAR	10	Barbering Theory	5	5
BAR	11	Barbering Practice	10.5	21
SBM	10	Small Business Management	2	2
ENG	11	English	2	2
			19.5	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM: HAIRDRESSING

GBC CODE NO.: ST 71

OMRP CODE NO.:

LOCATION:	LENGTH:	FEES:	CERTIFICATION:
KENSINGTON CAMPUS	Basic 8 Weeks Advanced 8 Weeks	SPONSORED	CERTIFICATE

PREREQUISITES: Length of Apprenticeship Term: 3 periods of 1,500 hours each — Grade 9 Credit

GENERAL INFORMATION:

This course is designed to provide the student with all necessary skills for employment in the various salons catering to hair fashions.

Program Contents:			Credit Units per Semester:	Periods per Week:
BASIC PROGRAM				
HAIR	10	Theory of Hairdressing	8	8
HAIR	11	Hairdressing Practice	10	19
ENG	17	Language and Communication	1.5	1.5
PHYS	17	Applied Science	1.5	1.5
			21	30
ADVANCED PROGRAM				
HAIR	20	Theory of Hairdressing	8	8
HAIR	21	Hairdressing Practice	10	19
ENG	23	English	1.5	1.5
MATH	23	Mathematics	1.5	1.5
			21	30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM:	GBC CODE NO.:	LENGTH:	FEES:	CERTIFICATION:
CERTIFIED BUILDING CUSTODIAN	ST 73	14 WEEKS	$42.00	CERTIFICATE
	OMRP CODE NO.: 611			
LOCATION: TERAULAY CAMPUS				

PREREQUISITES:

Physically capable of carrying out work routines; mopping floors, controlling floor machines; ability to follow instructions in English.

GENERAL INFORMATION:

With the continued growth of our towns and cities there is an ever-increasing demand for trained custodial staff. This course is intended primarily for the student who is seeking job opportunities in the general field of building maintenance-cleaning. As newer types of machines are introduced in this job area, a demand for supervision will become imminent. Such training is being planned for almost immediate presentation.

Program Contents:			Credit Unit per Semester:	Periods per Week:
ENG	~~141~~	English		3
MATH	~~146~~	Mathematics 142		2
BCU	141	Custodial Theory		7
BCU	142	Custodial Practice		18
				30

NOTE: Successful students are rated at two levels:

(a) Basic Building Custodian Level 1 - this designation is given for proficiency in the Custodial Practical training only.

(b) Certified Building Custodian Level 2 - this designation is given to those students who demonstrate proficiency in both the Custodial Theory and the Custodial Practical training.

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM:	GBC CODE NO.:	LENGTH:	FEES:	CERTIFICATION:
COMMERCIAL VEHICLE DRIVING	ST 74	3 WEEKS	$9.00	
	OMRP CODE NO.: 802			
LOCATION: COLLEGE STREET CAMPUS				

PREREQUISITES: Grade 8 or equivalent. Must be in possession of a chauffeur's licence. Must be physically capable of handling a large vehicle and its load.

GENERAL INFORMATION:

The purpose of this course is to train students in the safe operation of a five-ton standard commercial vehicle; and to prepare students for entry into the field of road transportation. Employment opportunities for graduates are increasing as industry is demanding trained personnel.

Program Contents:			Credit Units per Semester:	Periods per Week:
COMM	10	Commercial Vehcile Operation		30

THE GEORGE BROWN COLLEGE OF APPLIED ARTS AND TECHNOLOGY

NAME OF PROGRAM:		GBC CODE NO.: ST 75	
TRACTOR TRAILER DRIVING		OMRP CODE NO.: 1004	
LOCATION:	LENGTH:	FEES:	CERTIFICATION:
COLLEGE STREET CAMPUS	2 WEEKS	$6.00	

PREREQUISITES: Must have been employed as a driver of a standard commercial vehicle for not less than one year, in possession of a chauffeur's licence and able to pass a driving test.

GENERAL INFORMATION:

The purpose of this course is to train students in the safe operation of a tractor trailer; and to prepare students for advancement in the field of road transportation. With driving becoming involved and in many instances hazardous, a scientific approach to this area provides drivers with current knowledge of latest methods of safe and economical operation.

Program Contents:	Credit Units per Semester:	Periods per Week:
COMM 11 Tractor Trailer Driving		30